CR-IR346CL Service Manual

Appx IN: Installation – Appendix

WARNING

This manual is written for International distribution (including distribution in the U.S.) and therefore may contain references to mammography related options.
Mammography functionality for this product is not commercially available in the US, pending FDA Approval.
This functionality must not be activated on US models, the only breast related functionality available in the U.S. is the Specimen Imaging Application.

Control Sheet

Issue date	Revision number	Reason	Pages affected
07/20/2002	05	Revision for software version A08 (FM3428)	I-IV, 3-1, 3-3, 4-2, 4-3, 7-1, 7-6
11/30/2002	06	Revision for software version A09 (FM3499)	I-IV, 3-3, 3-4, 5-1, 5-6
03/01/2003	07	Revision for software version A10 (FM3634)	I, II, 4-4–9, 5-4, 6, 7-6, 9-1
08/20/2003	08	Revision for software version A11 (FM4009)	I, II, 3-1, 4-2
12/10/2003	09	Revision for software version B00 (FM4158)	I, II, 1-1, 1-4–6, 4-2, 5-3, 5-4, 5-6, 6-4, 7-6, 8-3
02/20/2004	10	A new production tool adopted and layout design changed (FM4220)	All pages
07/30/2004	11	Revision for software V2.0(B) (FM4254)	I, II, 1-4, 1-6, 2-1, 3-1, 4-2, 5-1, 5-6–8, 8-1, 9-1, 9-2
07/30/2004	11	Changes in pagination (FM4254)	2-2–4, 5-2–5
07/30/2005	14	Revision for software V3.0(B) (FM4543)	I, II, 5-7, 9-2

Appendix 1 Installing the Touch Panel Driver [Option]

This appendix shows the touch panel driver installation and adjustment procedures to be performed when using the 15” monitor with the touch panel.

☞ **When using an L362T monitor for the touch panel, see “■ Installing the driver (for L362T)” and “■ Adjusting the touch panel (for L362T)” to perform necessary procedures.**

■ Installing the driver

◆ ***NOTE*** ◆

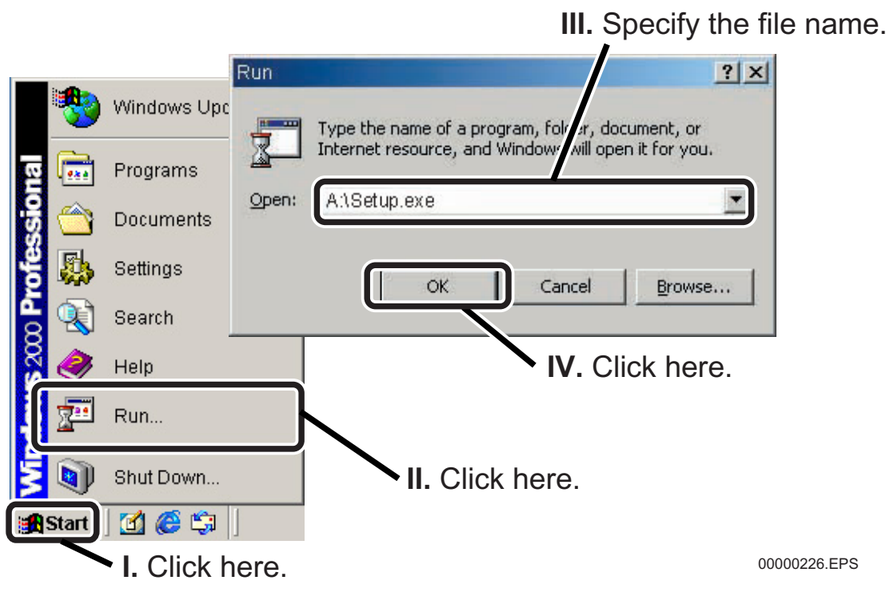
Be sure to install the Windows 2000 driver.

1. Insert the driver media (FD or CD) into a drive of the PC.

2. Start up an installation file.

● When using the FD

Start up as follows.



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● When using the CD-ROM (previous version)

The window shown below opens when the CD-ROM is inserted into the drive.

Click **Install MonitorMouse for Windows 2000**.

Elo TouchSystems TouchTools
Install MonitorMouse for Windows 95 / 98
Install MonitorMouse for Windows 2000
Install MonitorMice for Windows NT 4.0

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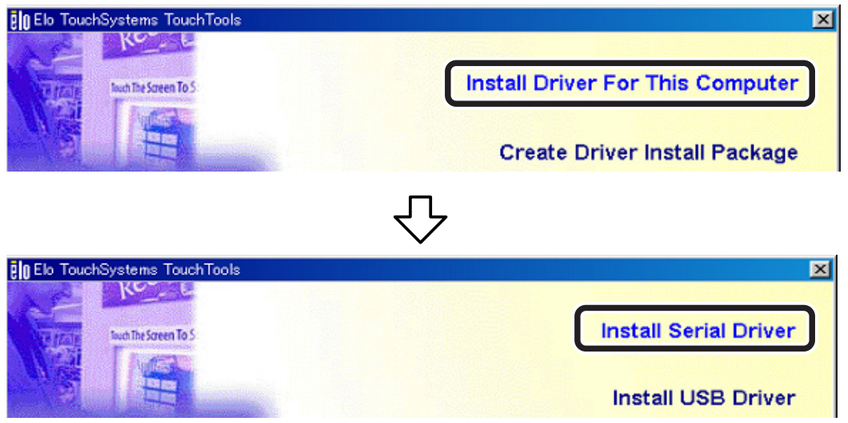
● When using the CD-ROM (new version)

When you insert the CD-ROM into its drive, the following window automatically opens. Click “Install Driver for This Computer”. When the next window opens, click “Install Serial Driver”.



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➔ The “Elo MonitorMouse for Windows 2000 Setup” window opens in several seconds.

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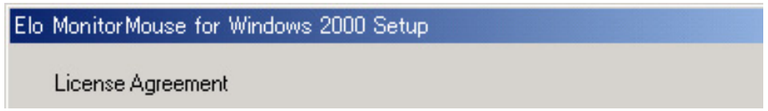
3. **Click** Next > .

➔ The license agreement window opens.



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4. **Click** Yes .

➔ The port selection window opens.

Elo MonitorMouse for Windows 2000 Setup
Choose one of the COM ports listed below to
your touchmonitor. All COM ports reported by
are listed.
COM1
COM2

00000413.EPS

◆ ***NOTE*** ◆

Select the same COM port number as that of the serial port connected to the PC.

5. **Click** Next > .

➔ The “Digital Signature Not Found” window opens in several seconds.

Digital Signature Not Found
The Microsoft digital signature affirms that software has
been tested with Windows and that the software has not
been altered since it was tested.

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6. **Click** Yes .

➔ In about one minute, a window opens to indicate the completion of installation.

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7. **Click** Finish .

➔ The “Updating System Settings” window opens.

8. **Remove the medium from the PC’s drive.**

◆ ***NOTE*** ◆

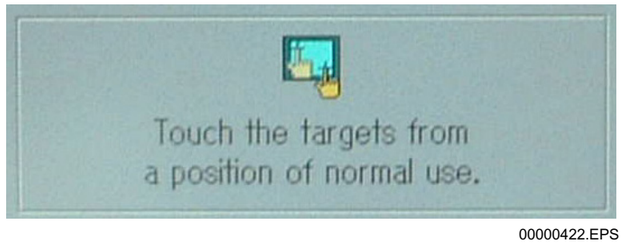
If the employed medium is an FD, be sure to remove it from its drive. If it is left in the drive, the OS does not start up.

9. **Click** Yes .

➔ The PC restarts and then automatically opens the touch panel adjustment window.

◆ ***NOTE*** ◆

Start adjusting the touch panel as soon as the window below has opened, otherwise it will close with the touch panel left unadjusted.



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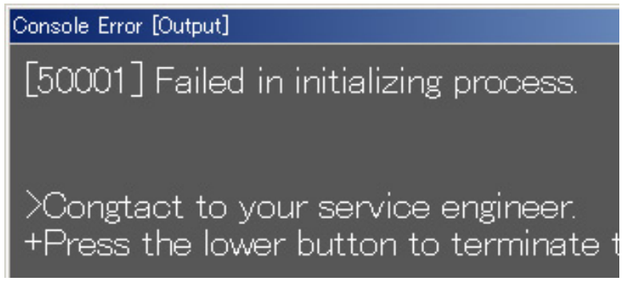
■ Adjusting the touch panel

◆ *NOTE* ◆

The following window may suddenly open during the touch panel adjustment process. It does not indicate any touch panel adjustment problem.

Click OK *to close the window and then continue with the touch panel adjustment process.*


Console Error [Output]
[50001] Failed in initializing process.
>Congtact to your service engineer.
+Press the lower button to terminate t

00000321.EPS

1. **With your finger, gently touch the mark at the upper left area of the window.**

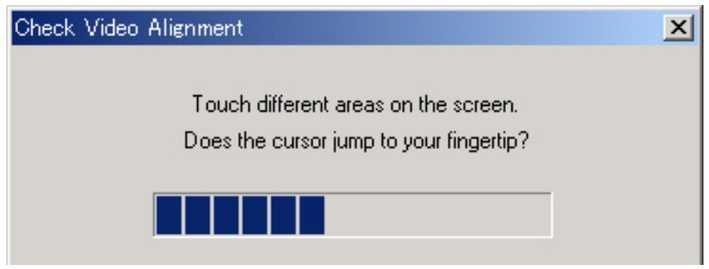
➔ The mark moves to the lower right area of the window. (A beep will sound.)

2. **Touch the mark gently with your finger.**

➔ The mark moves to the upper right area of the window.

3. **Gently touch the mark again with your finger.**

➔ The “Check Video Alignment” window opens.



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4. **Click Yes.**

◆ *NOTE* ◆

Click Yes *within a period of 30 seconds. Failure to click* Yes *within a 30-second period invalidates the previous adjustments made.*

➔ The “Elo TouchSystems Setup” window opens.

5. **Deselect View Elo Touchscreen control panel. (☑ ➔ ☐) and then click Finish.**

➔ The system returns to the desktop screen.

◆ *NOTE* ◆

If a window opens to prompt for FD insertion, click Cancel.

☞ **To set up other functions (e.g. for silencing the alarm sound) of the touch panel, see the documentation for the touch panel driver.**

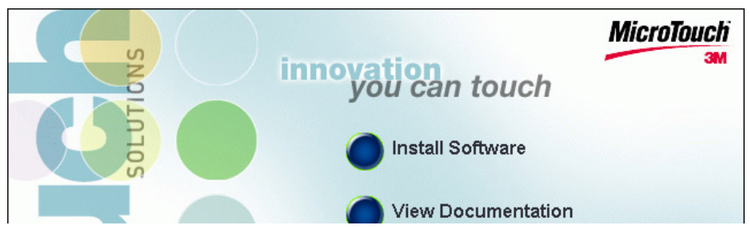
■ Installing the driver (for L362T)

◆ *NOTE* ◆

Be sure to install the Windows 2000/XP driver.

1. **Insert the driver installation CD-ROM into the PC's CD-ROM drive.**

➔ A window like that shown below opens.



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2. **Click [Install Software].**

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3. **Click [TouchWare for Windows (95, 98, Me, NT 4, 2000, XP)].**

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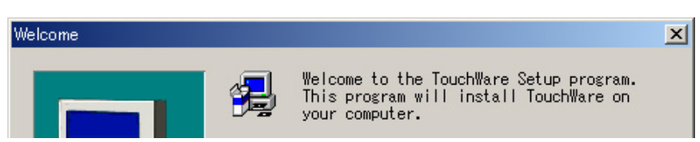
➔ The "Welcome" window opens.



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4. **Click** [Next >].

➔ The "3M Software License Agreement" window opens.

3M Software License Agreement
3M
Please read the following License Agreement. Use the PAGE DOWN key to review the entire agreement.
SOFTWARE LICENSE AGREEMENT
3M Touch Systems, Inc.
TouchWare Software

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5. **Select** [I Accept--TouchWare installation will continue.] **and then click** [Next >].

➔ A window opens to select a connector type.

6. **Select [Serial (Defa)] and click** [Next >].

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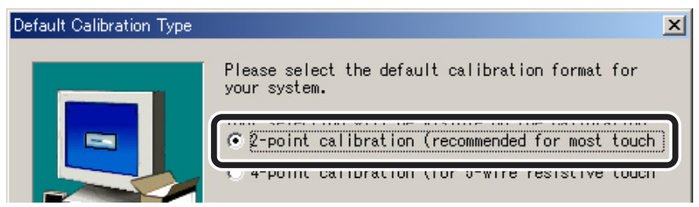
➔ The "Default Calibration Type" window opens.

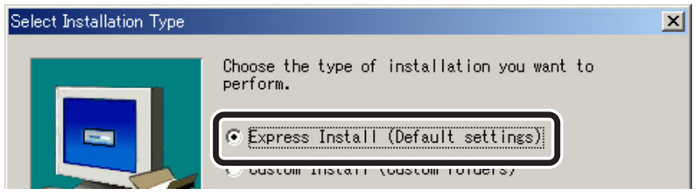
7. **Select [2-point calibration (recommended for most touch)] and click** [Next >].


Default Calibration Type
Please select the default calibration format for your system.
2-point calibration (recommended for most touch

IN000305.EPS

➔ The "Serial Installation Type" window opens.

8. **Select [Express Install (Default settings)] and click** Next >.



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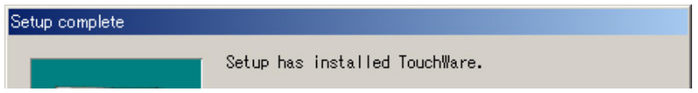
➔ The “Setup complete” window opens.



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9. **Uncheck** ☑ Yes, I want to view the ReadMe file. **(☑ ➔ ☐) and click** Finish.

➔ The “Touch Screen Calibration Needed” window opens.

10. **Click ☐.**

Touch Screen Calibration Needed
Welcome! TouchWare has been installed on your computer.
We recommend you calibrate the touch screen for each video display setting.
OK
Calibrate
Do not remind me when display settings change.

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➔ The system returns to the desktop screen.

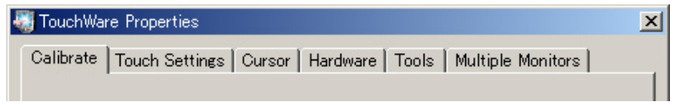
11. **Remove the driver installation CD-ROM from the CD-ROM drive.**

■ Adjusting the touch panel (for L362T)

1. **Double-click**

.

➔ The “TouchWare Properties” window opens.



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2. **Click** Calibrate.

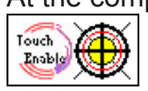
➔ A window opens asking you to adjust the position to be touched on the window.

3. **Keep touching the** **mark at the lower left corner of the window for a few seconds.**

➔ At the completion of adjusting the touching position, the

mark will appear.

4. **Keep touching the** **mark at the upper right corner of the window for a few seconds.**

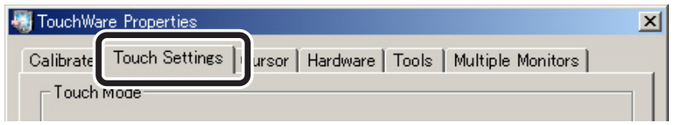
➔ At the completion of adjusting the touching position, the 

mark will appear and the “Calibration Complete” window displayed.

5. **Click** Done.

➔ The system returns to the “TouchWare Properties” window.

6. Select the “Touch Settings” tab.



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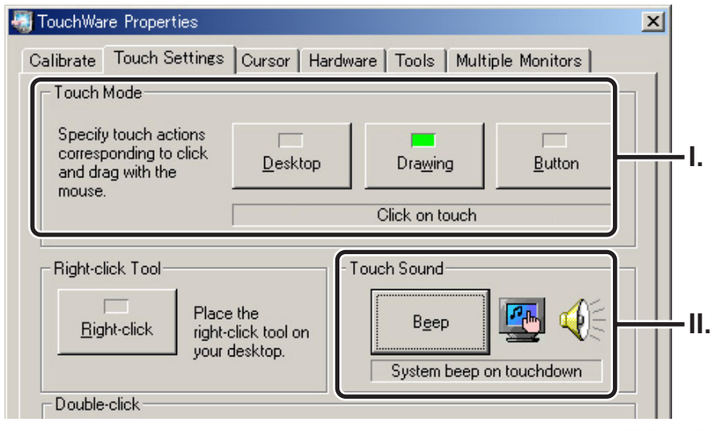
7. Perform the following settings.



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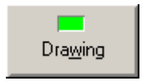
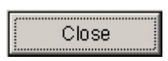
I. Touch 

to set the Touch Mode to [Click on touch].

II. Touch

to set the Touch Sound to [System beep on touchdown].

8. Touch 

to shut down the “TouchWare Properties” window.

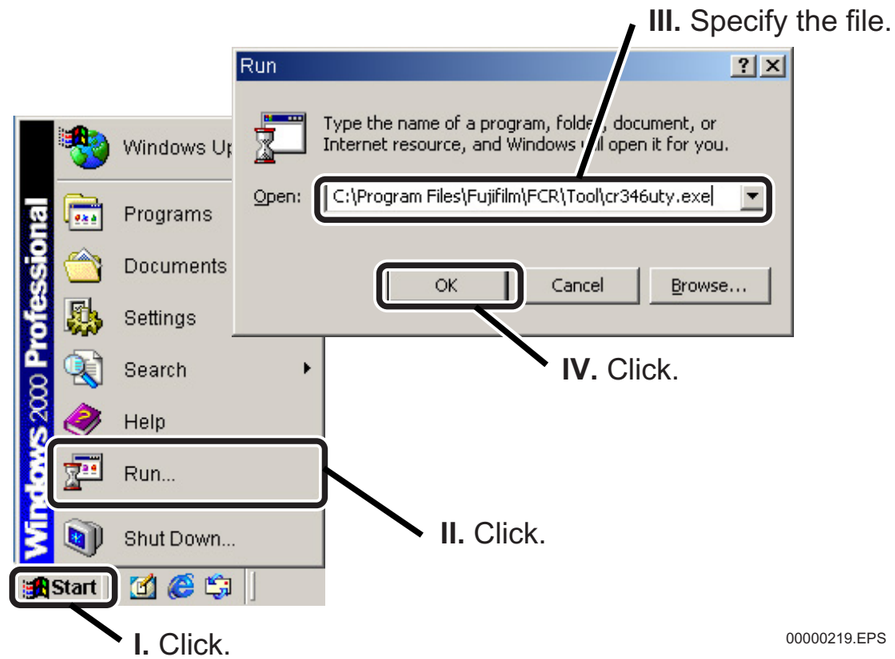
☞ **To set up other touch-panel-related functions, such as silencing the click sound, see the manual supplied with the touch panel driver.**

Appendix 2 Setting the RU-Config

◆ NOTES ◆

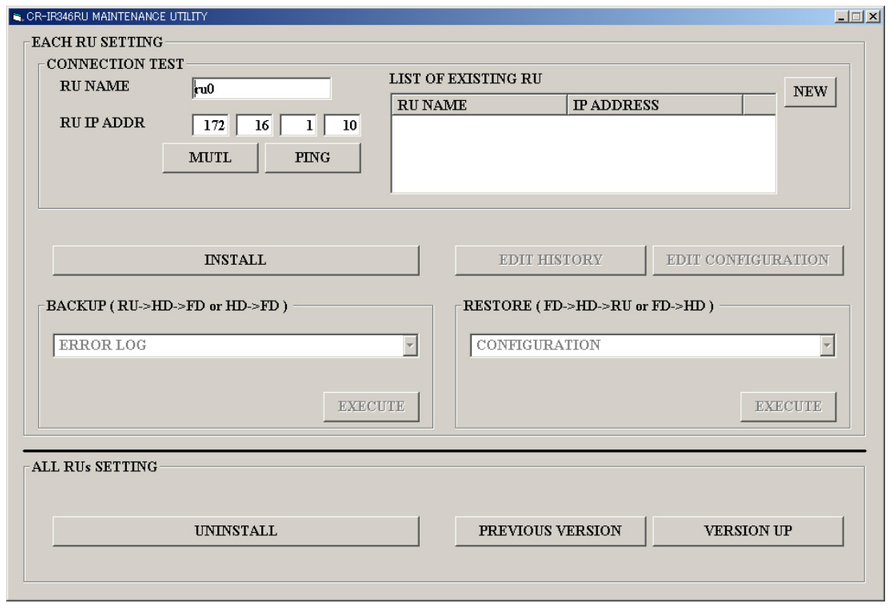
- *Verify that Explorer or other application is not running. If any applications are running, exit them.*
- *Before proceeding to perform the procedure set forth below, exit the CL-AP.*
- *RU M-Utility is used for RU-Config setup. However, the setup procedure varies with the employed RU M-Utility version. When the employed version is 1.2 or later (when RU M-Utility is installed from RU application CD-ROM version A07 or later), you only have to perform steps 1. through 6.*
  However, if the employed RU M-Utility version is 1.1 or earlier (when RU M-Utility is installed from RU application CD-ROM version A06 or earlier), you have to perform all steps.
- *When the OS used is Windows XP, the RU M-Utility must be of version 1.4 or later and the RU software, A09 or later.*
- *Windows 2000 screens are used herein, whose contents are the same as those displayed by Windows XP.*

1. Start the RU M-Utility as directed below:

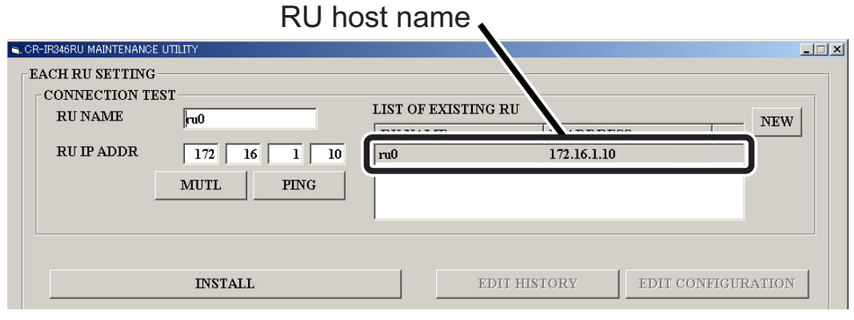


➔ The RU M-Utility main menu opens.

● Main menu window
(the display differs depending on the software version used.)



2. From the “LIST OF EXISTING RU” area, click the host name of the RU whose configuration file is to be set.



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➔ The text color of the “EDIT CONFIGURATION” button changes from gray to black.

3. Click EDIT CONFIGURATION .

➔ The “READER UNIT SETTING” window opens.

4. See the table entitled "RU configuration setting list" and change the RU-Config settings.

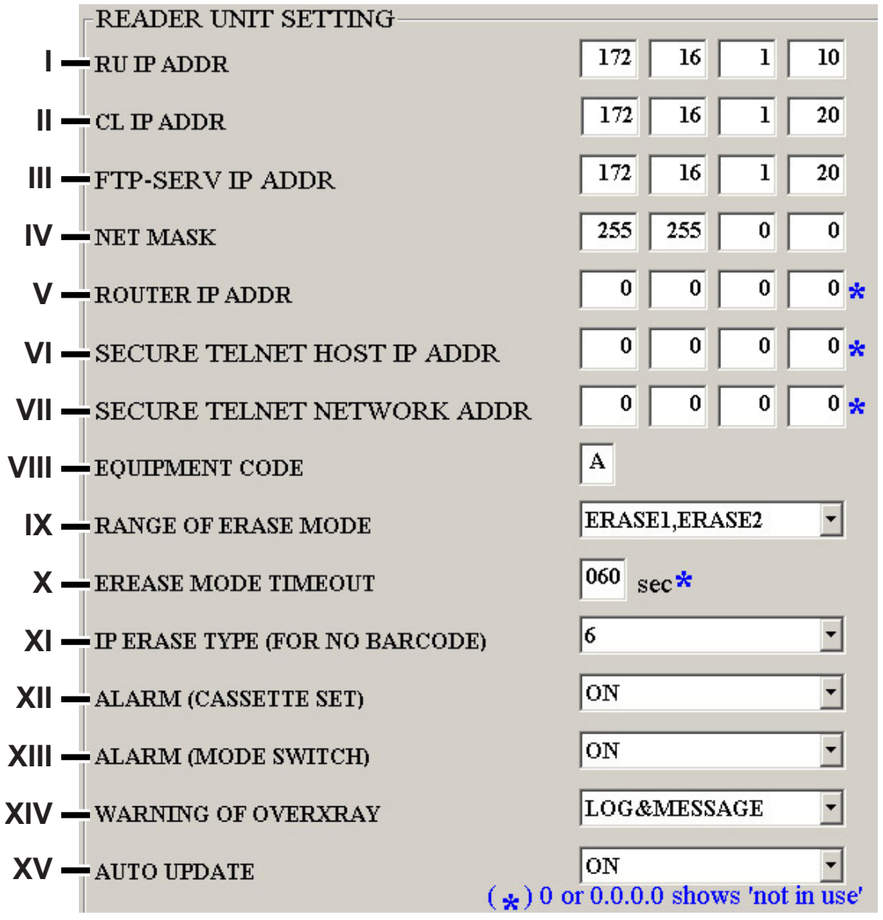
READER UNIT SETTING
I RU IP ADDR 172 16 1 10
II CL IP ADDR 172 16 1 20
III FTP-SERV IP ADDR 172 16 1 20
IV NET MASK 255 255 0 0
V ROUTER IP ADDR 0 0 0 0 *
VI SECURE TELNET HOST IP ADDR 0 0 0 0 *
VII SECURE TELNET NETWORK ADDR 0 0 0 0 *
VIII EQUIPMENT CODE A
IX RANGE OF ERASE MODE ERASE1,ERASE2
X EREASE MODE TIMEOUT 060 sec*
XI IP ERASE TYPE (FOR NO BARCODE) 6
XII ALARM (CASSETTE SET) ON
XIII ALARM (MODE SWITCH) ON
XIV WARNING OF OVERXRAY LOG&MESSAGE
XV AUTO UPDATE ON
(*) 0 or 0.0.0.0 shows 'not in use'

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Table RU configuration setting list

No.	Configuration Setup Item	Setup Range	Default	Remarks
I	RU IP ADDR	IP address setup range	IP address set up when the RU-AP is installed.	IP address of the RU.
II	CL IP ADDR	IP address setup range	IP address set up when the RU-AP is installed.	IP address of the HOST (CL).
III	FTP-SERV IP ADDR	Subnet mask setup range	IP address that is set up during RU-AP installation will be the default.	FTP server IP address
IV	NET MASK	Subnet mask specification range	255.255.0.0	Subnet mask
V	ROUTER IP ADDR	IP address setup range	0.0.0.0	Route address (Do not change the setup.)
VI	SECURE TELNET HOST IP ADDR	IP address setup range	0.0.0.0	IP address available for the TELNET
VII	SECURE TELNET NETWORK ADDR	IP address setup range	0.0.0.0	Range of the IP address available for the TELNET
VIII	EQUIPMENT CODE	A–Z	A	Machine serial ID code of the RU. (This code is printed on film.)
IX	RANGE OF ERASE MODE	• ERASE 1 • ERASE 1, ERASE 2	ERASE 1	Specifies the erasure mode range. ERASE 1: Primary erasure can be selected. ERASE 1, ERASE 2: Both primary and secondary erasures can be selected.
X	ERASE MODE TIMEOUT	0 to 999 (sec)	060	Erase mode timeout setting
XI	IP ERASE TYPE (FOR NO BARCODE)	• 5, 6 • 6	6	Setup needed if no barcode reader is used. 5, 6 : Types V and VI mixed. 6 : Type VI
XII	ALARM (CASSETTE SET)	• ON • OFF	ON	Sets alarm ON/OFF when cassette is inserted. ON : Alarm sounds. OFF : Alarm does not sound
XIII	ALARM (MODE SWITCH)	• ON • OFF	ON	Sets alarm ON/OFF when erasure processing is selected. ON : Alarm sounds. OFF : Alarm does not sound
XIV	WARNING OF OVER-XRAY	• LOG & MESSAGE • LOG • NONE	LOG & MESSAGE	Selects X-ray over-exposure IP warning method. LOG & MESSAGE: Warning by log and message. LOG : Warning by log. NONE : No warning issued.
XV	AUTO UPDATE (A07 or later)	• ON • OFF	ON	Have the RU automatically download RU data from the FTP server if there is a discrepancy between CL FTP server data and RU FLASH ROM data.

5. **Click** SET.

➔ RU-Config installation will start.

◆◆ *CAUTION* ◆◆
(Applicable only for RU M-Utility version 1.2 or later.)

Never turn OFF the power to the RU or press the reset switch while the RU panel is illuminated for the RU-Config installation process, because the RU's CPU board can be damaged.

6. **Click the ✕ mark at the upper right corner of the window.**

➔ The system returns to the desktop screen.

- Perform steps hereinafter only when the RU M-Utility version used is 1.1 or earlier.

7. **From the Start menu, sequentially choose "Programs", "Fuji Film", and then "FCR".**

➔ The CL-AP starts up in about one minute.

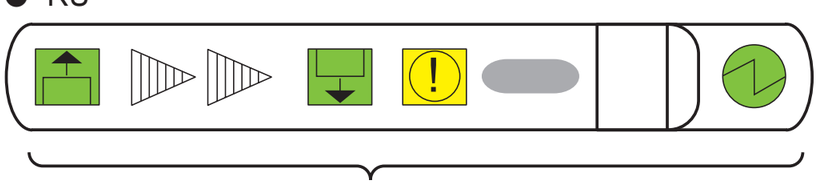
8. **Start the RU (by turning the power ON).**

➔ After a while, all the LEDs on the RU panel come on, and the CL monitor shows a message to indicate that the RU-Config is being updated.

◆◆ *CAUTION* ◆◆

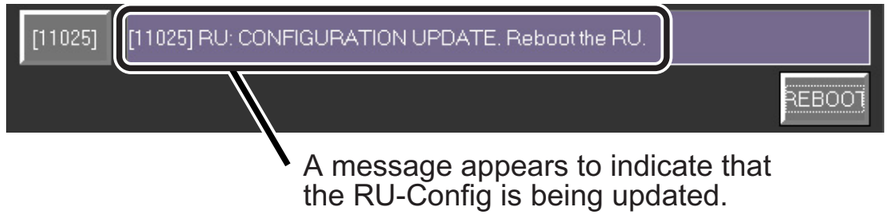
Never turn OFF the power to the RU or press the reset switch while the RU panel is illuminated, because the RU's CPU board can be damaged.

- RU



All the LEDs on the RU panel come on. 00000196.EPS

- CL



A message appears to indicate that the RU-Config is being updated.

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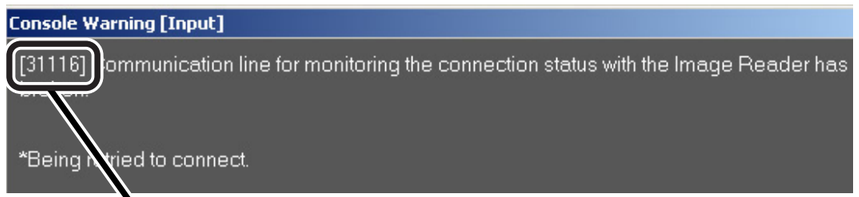
➔ The RU-Config update process ends.

9. **Click REBOOT on the CL monitor.**

➔ The RU system restarts, making the updated RU-Config settings effective.

After several seconds, the "Console Warning" window opens.


Console Warning [Input]
[31116]
ommunication line for monitoring the connection status with the Image Reader has
*Being
tried to connect.

"31117" or "31118" can eventually be displayed.

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◆ *NOTE* ◆

Do nothing and wait for a while.
The "Console Warning" window will disappear.

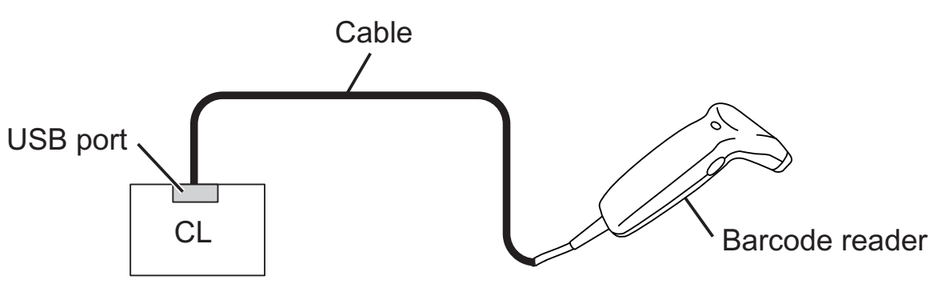
➔ The RU initialization message appears. The RU becomes available in about one minute.

Appendix 3 Connecting the Barcode Reader [Option]

This appendix explains about the procedures for connecting and setting up the barcode reader.

1. Connecting the Barcode Reader to the CL

Connect a barcode reader to the USB port on the back of the PC. When the PC is used placing it horizontally, connect the barcode reader to the bottom port for back connection.



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◆ *NOTES* ◆

- *After the barcode reader has been connected to the CL, be sure to restart the OS. Although a window opens immediately after reader connection to indicate that driver software installation has been completed, you cannot immediately use the reader because it is not recognized by the CL-AP yet.*
- *Because the CL system barcode reader sound needs to be produced only when a barcode is read successfully, it has been designed so that the PC itself produces a sound. For this reason, the sound produced by the barcode reader, not only when a barcode is read successfully but also when it is read unsuccessfully, is disabled for machines when they are shipped from factory. When it is necessary that the barcode reader produces a sound for some reason, make the setup accordingly by reading the barcode described in the section below.*

➔ The barcode reader driver is then automatically set to make the barcode reader operative.

2. Performing Setup for IP Barcode Use

Just connecting the barcode reader to the PC will set up the driver automatically making thus it available.

◆ *NOTE* ◆

Because the driver is not set up automatically for Windows XP, you have to do it manually.

☞ ***For how to install the driver, see "4.6 Changing the Barcode Reader/Magnetic Card Reader Driver Software" under "MT: Machine Troubleshooting".***

3. Setup for Type B ID Online Operations

Just connecting the barcode reader to the PC will set up the driver automatically making thus it available.

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4. DENSO Barcode Reader

<Silencing the buzzer>

1 Setup started

Sounding the buzzer three times

2 All default settings (*)

3 U.S. English (101 series)

4 Transferring a/b/c/d

5 Transfer permitted

6 Continuous reading mode

7 Buzzer disabled

8 Setup completed

Sounding the buzzer three times

<Sounding the buzzer>

1 Setup started

Sounding the buzzer three times

2 All default settings (*)

3 U.S. English (101 series)

4 Transferring a/b/c/d

5 Transfer permitted

6 Continuous reading mode

7 Setup completed

Sounding the buzzer three times

5. OPTOELECTRONICS Barcode Reader

<Silencing the buzzer>	<Sounding the buzzer>
Setup started	Setup started
Starting sounding the buzzer	Starting sounding the buzzer
Initial setting	Initial setting
USB interface	USB interface
US 101Key	US 101Key
Trigger switch not used	Trigger switch not used
Buzzer disabled	Buzzer enabled
Setup completed	Setup completed
Stopping sounding the buzzer	Stopping sounding the buzzer

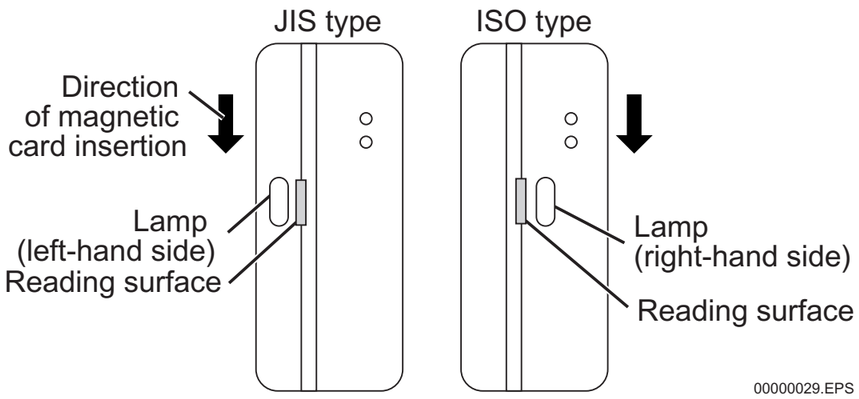
Appendix 4 Setting Up the Magnetic Card [Option]

◆ NOTE ◆

When using a JIS type reader, use a JIS type magnetic card.
When using an ISO type reader, use an ISO type magnetic card.

The magnetic card reader (hereinafter abbreviated as the reader) connection and setup procedures are described herein.

Two types of readers can be connected to the CL: JIS type and ISO type. The choice between these two types depends on the user's operating environment.



1. Installing the Wall-Mounting Bracket

When installing the wall-mounting bracket for use with the reader, perform the following steps.

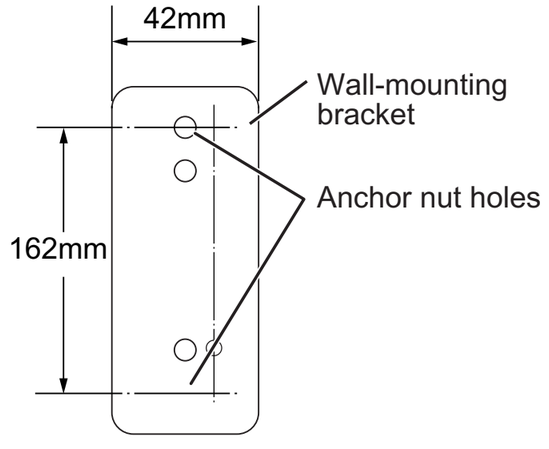
➤ IMPORTANT

When installing the wall-mounting bracket, ensure that the concrete strength of the wall is not less than 210 kgf/cm^2. If the concrete strength is inadequate, the required amount of mounting strength will not be obtained. Be sure to check the concrete strength in advance.

1. Determine the mounting position of the wall-mounting bracket. Mark the center of each of the two wall-mounting bracket mounting holes for anchor nut installation.

◆ NOTE ◆

Be sure that the employed anchor nuts conform to the wall conditions (use the supplied anchor nuts).

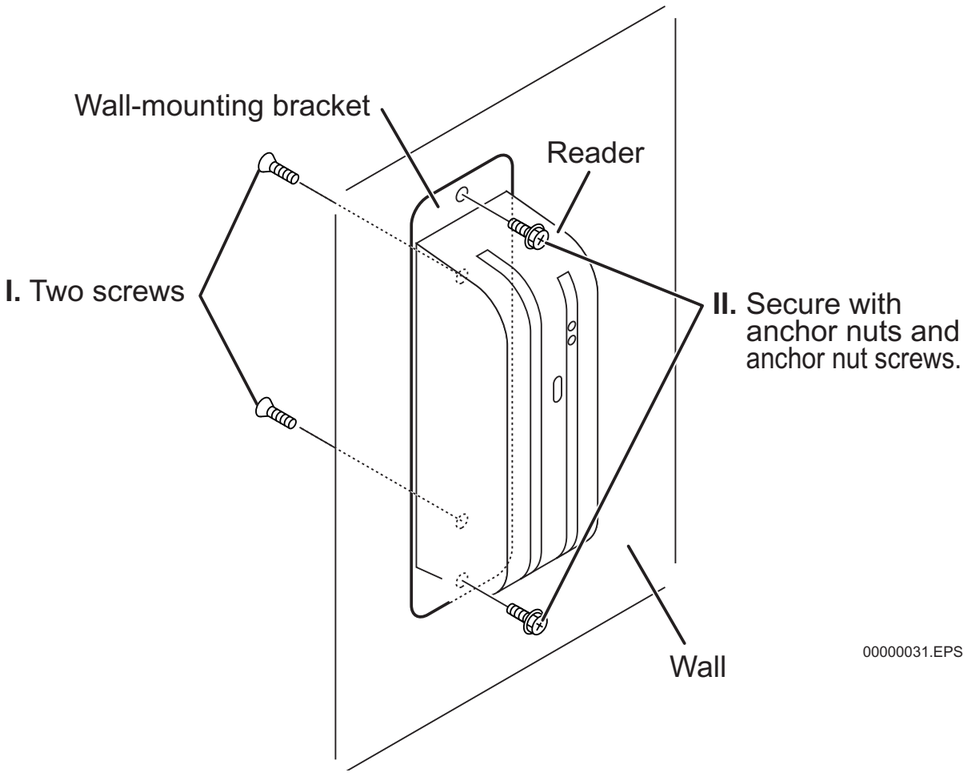


2. Drill holes (7.5 mm in diameter and 25 mm in depth) at the marked positions and drive two anchor nuts into the holes.

3. **Install the wall-mounting bracket as directed below:**

I. With two screws, attach the wall-mounting bracket to the bottom surface of the reader.

II. With the anchor nuts and their screws, fasten the wall-mounting bracket to the wall.



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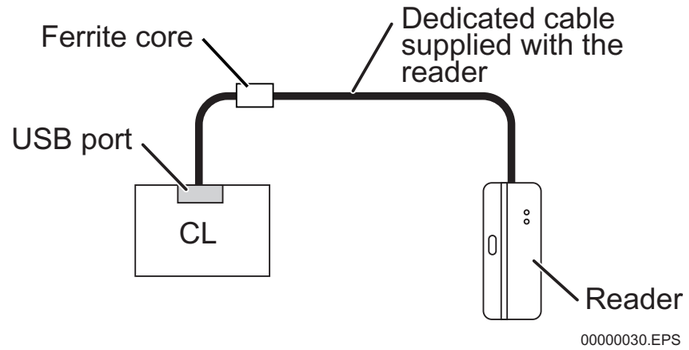
2. Connecting the CL to the Reader

Connect the reader to the USB port on the back of the PC.

1. **Use the cable supplied with the reader to connect the USB port that is on the back of the CL to the reader. When the PC is used placing it horizontally, connect the reader to the top port for back connection.**



00000030.EPS

➔ The reader driver will be set up automatically, becoming thus ready for use.

◆ *NOTES* ◆

- *After the reader has been connected to the CL, be sure to restart the OS. Although a window opens immediately after reader connection to indicate that driver software installation has been completed, you cannot immediately use the reader because it is not recognized by the CL-AP yet.*
- *Because the driver is not set up automatically for Windows XP, you have to do it manually.*

  ☞ ***For how to install the driver, see "4.6 Changing the Barcode Reader/Magnetic Card Reader Driver Software" under "MT: Machine Troubleshooting".***

3. Setting the Reader and Magnetic Card

Perform the following procedures to set the reader type and magnetic card type.

■ Setting the reader type

1. Start the Service Utility mode of the CL.

☞ **For details on the startup procedure, see "1. Starting/Exiting the Service Utility" under "MU: Maintenance Utility".**

2. Click Setup Configuration Item **in the "Service Utility" window.**

➔ The "Setup Configuration Item" window opens.

3. Click the ⊞ sign within ⊟ SYSTEM CONFIG**.**

4. Click 5.CSL/IDT FUNCTION**.**

➔ The IDT functionality and magnetic card setup items appear in the right-hand area of the window.

5. With 27 MCR Card Type (JIS/ISO) **, set the reader type.**

■ Setting the magnetic card type

● When using a magnetic card reader in Fuji format

1. From 28 MCR Crad Format Setup **, select a magnetic card type.**

ISO magnetic card	JIS magnetic card
• 0: FUJI [default]	• 0: FUJI [default]
• 6: FJ51	• 1: FJ01
	• 2: FJ02
	• 3: FJ03
	• 4: FJ04
	• 5: FJ05

☞ **For detailed format descriptions, see "5. ID Card Data Format [Reference]".**

➥ *REFERENCE*

Even if "Yes" is set for 26 MCR Customized Card *, a magnetic card in Fuji format can be used (recognized by the system code).*

2. From the "Config (F)" menu, choose "Save".

➔ A window opens, prompting you to confirm the setup data to be saved.

3. Click Yes **.**

➔ The system saves the setup data.

4. From the "Config (F)" menu, choose "Close".

➔ The system returns to the "IIP Service Utility" window.

5. Click Exit Service Utility **.**

➔ The system returns to the desktop screen.

● When using a hospital card (in a hospital's unique format)

1. From the "Setup Configuration Item" window, change the 26 MCR Customized Card **setting to "Yes".**

2. From the "Config (F)" menu, choose "Save".

➔ A window opens, prompting you to confirm the setup data to be saved.

3. Click Yes **.**

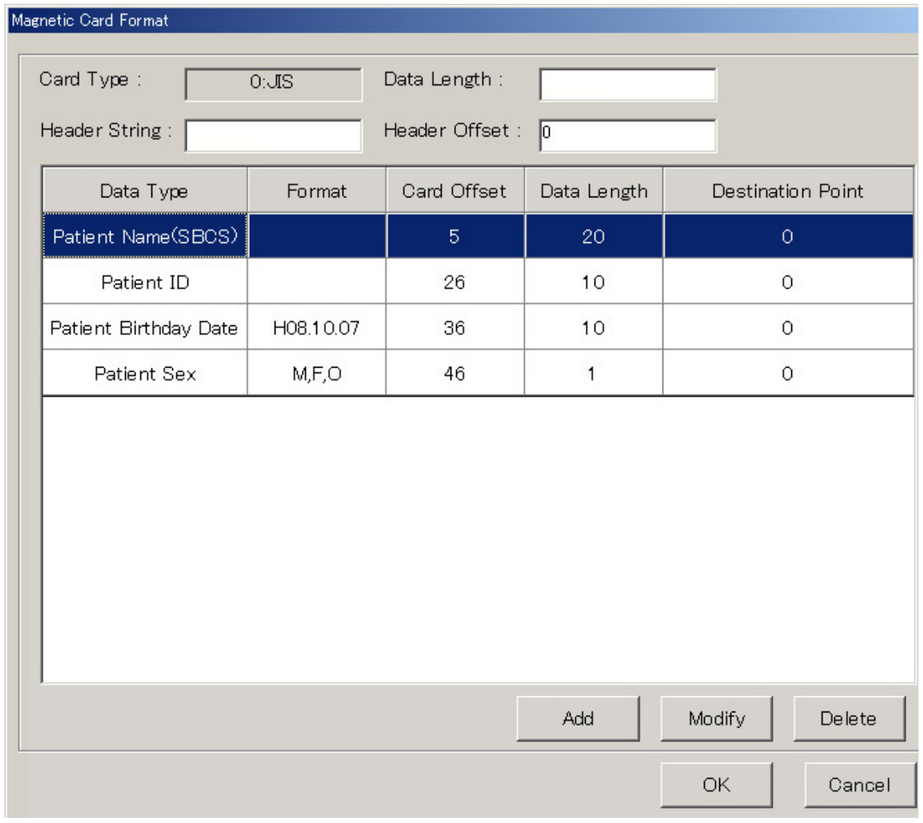
➔ The system saves the setup data.

4. From the "Config (F)" menu, choose "Close".

➔ The system returns to the "IIP Service Utility" window.

5. **Click** Magnetic Card Setting **.**

➔ The “Magnetic Card Format” window opens.



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6. **Determine “Data Length”, “Header String” and “Header Offset” values in accordance with the magnetic card data format adopted at the hospital.**

☞ **For data format details, see “5. ID Card Data Format [Reference]”.**

- Data Length : The length of the overall data registered on the magnetic card.
- Header String : The header character string of the data.
- Header Offset : The header character string start position.

➥ *REFERENCE*

This setting is to cope with the problem of cancellation of significant digits occurring when reading a hospital card, which causes the relevant patient information to be different from the original.

This setting checks the Data Length and Header String of a hospital card, causing thus an error to be indicated in the event of a problem of cancellation of signification digits, which consequently prevents a data mis-reading error to occur. Note that when both the Data Length and Header String boxes are blank, this setting will not be performed.

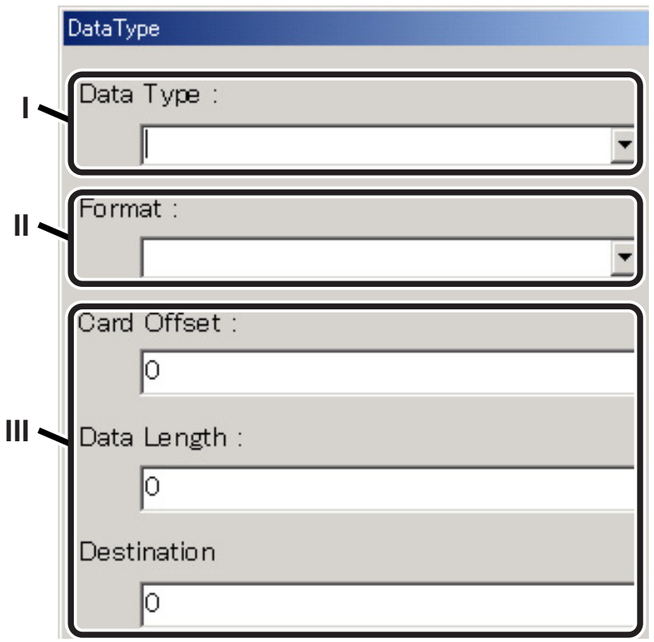
7. **To add a new item, click** Add **.**

➥ *REFERENCE*

- *When changing an item setting, select an item and then click* Modify **.**
- *To delete an existing setup item, select it and then click* Delete **.**

➔ The “Data Type” window opens.

8. **In accordance with the magnetic card data format used in the hospital, set “Data Type”, “Format”, “Card Offset”, “Data Length”, and “Destination”.**



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☞ **For detailed data format descriptions, see Section “5. ID Card Data Format [Reference].”**

I. Click the downward arrow mark to select a Data Type setting.

II. Click the downward arrow mark to select a Format setting.

◆ *NOTE* ◆

Selectable only when “Patient Sex”, “Patient Birth Date”, or “Year or Month of Patient Birth Date” is selected as a Data Type setting.

III. Enter the Card Offset, Data Length , and Destination (storage offset) settings.

- **Card Offset**

  Specify the data start position on the card.

  Setup must be performed with the position next to “STX” (the character “F” when the FUJI card is used) regarded as “0”.
  Do not select the “SI/SO” or “Kanji IN/OUT” code portion as the start position.

- **Data Length**

  Enter the number of characters existing before the card offset position to specify the length of the data to be read.
  Ensure that the data length does not include the “SI/SO” or “Kanji IN/OUT” code portion.

  For kanji data, use an even number to specify the data length.

◆ *NOTE* ◆

Be sure that the patient ID number, examination number, and accession number data lengths do not exceed the effective number of digits specified for the “SYSTEM CONFIG “ – ” CSL/IDT FUNCTION” examination number character string length, patient ID character string length, and accession number character string length. If such a limit is exceeded, an error occurs.

Also, note that the padding process is performed as defined by “CSL/IDT FUNCTION” of “SYSTEM CONFIG” when the effective number of digits is not reached.

➥ *REFFERENCE*

The data length cannot be specified for the following data types.

- *Patient Birthday Date (Day)*
- *Patient Birthday Date (Month)*
- *Patient Birthday Date (Year)*
- *Patient Birthday Date*
- *Patient Sex*

- **Destination (storage offset)**

  Specify the location at which the read data is to be stored.

  If, for instance, a setting of 2 is entered, the third character and thereafter will be stored.
  A setting of 0 should normally be used.

9. **Click** OK **.**

➔ The system returns to the “Magnetic Card Format” window.
If the entered settings are incorrect, an error message appears.
If an error message appears, repeat steps 7-I and beyond.

10. **To add any other item, repeat steps 6. through 8.**

11. **Click** OK **.**

➔ The system returns to the “IIP Service Utility” window.

12. **Click** Exit Service Utility **.**

➔ The system returns to the desktop screen.

4. Hospital Card Data Format Setup Example [Reference]

This section explains about the setup procedure to be performed when using the magnetic card reader to load the following JIS-format-defined hospital card data into the CL.

As a patient ID number (10-digit), a 5-digit number consisting of the third to seventh digits is used.

■ Hospital card information and detailed format descriptions

- Patient name (16-digit 1-byte code katakana)
- Sex (1-digit)
- Patient ID number (10-digit)
- Birth date (4-digit year/2-digit month/2-digit day of the month)
- Alphanumeric department name (10-digit)
- Kanji name (7-digit 2-byte code kanji)

} The hospital card records the items of information shown at left in descending order.

Detailed format description

Digit	1	2	3	4	5	6	—	15	16	17	18	19	20	21	22	—	29	30
Content	STX	SO/SI	Patient name (1-byte code katakana, 16-digit)									SO/SI	Sex (1-digit)	Patient ID number (10-digit)				

Digit	31	32	33	34	35	36	37	38	39	40	41	42	43	44	—	47	48	49	50
Content	Birth date										Alphanumeric department name (10-digit)								
	Year (4-digit)				•	Month (2-digit)		•	Day of the month (2-digit)										

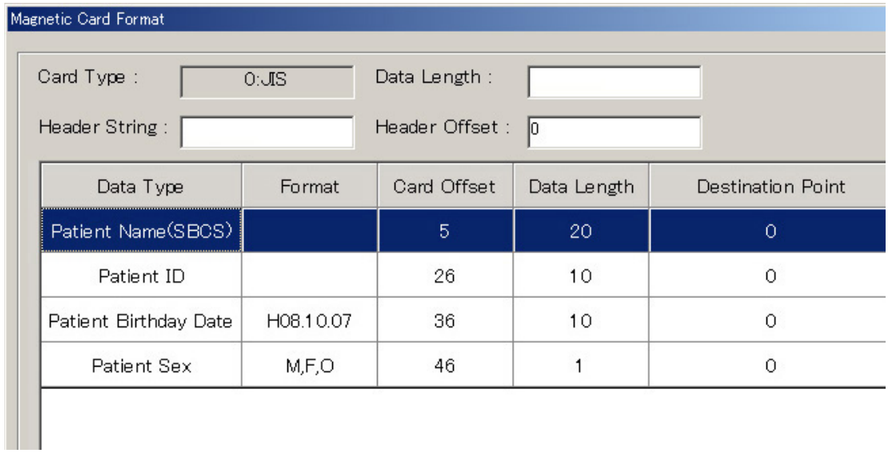
(The symbol “•” is a period.)

Digit	51	52	53	54	55	56	57	58	59	—	64	65	66	67	68	69	70	71	72
Content	ESC	$	B	SI	Kanji name (14-digit)											Undefined (2-digit)		ETX	LRC

■ Setup procedure

1. Start the CL service utility and then click [Magnetic Card Setting] – [Card Format].

➔ The “Magnetic Card Format” window opens.


Magnetic Card Format
Card Type : 0:JIS
Data Length :
Header String :
Header Offset : 0
Data Type | Format | Card Offset | Data Length | Destination Point
Patient Name(SBCS) | | 5 | 20 | 0
Patient ID | | 26 | 10 | 0
Patient Birthday Date | H08.10.07 | 36 | 10 | 0
Patient Sex | M,F,O | 46 | 1 | 0

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2. Since the hospital card is JIS-formatted, verify that “0: JIS” is entered in the Card Type : 0:JIS **field.**

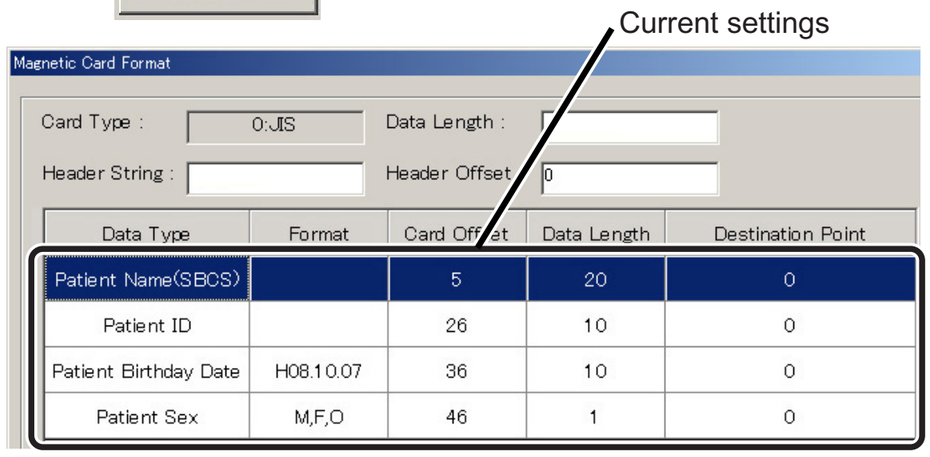
If the entry is not “0: JIS”, change it to the JIS format.

☞ **See “3. Setting the Reader and Magnetic Card”.**

3. Make sure that the “Data Length” and “Header String” boxes are blank and 0 is set to the “Header Offset” box.

To check the card reading data, the “Data Length” is set to 70 in this example.

4. With Delete **, clear all the current settings.**


Current settings
Magnetic Card Format
Card Type : 0:JIS
Data Length :
Header String :
Header Offset : 0
Data Type | Format | Card Offset | Data Length | Destination Point
Patient Name(SBCS) | | 5 | 20 | 0
Patient ID | | 26 | 10 | 0
Patient Birthday Date | H08.10.07 | 36 | 10 | 0
Patient Sex | M,F,O | 46 | 1 | 0

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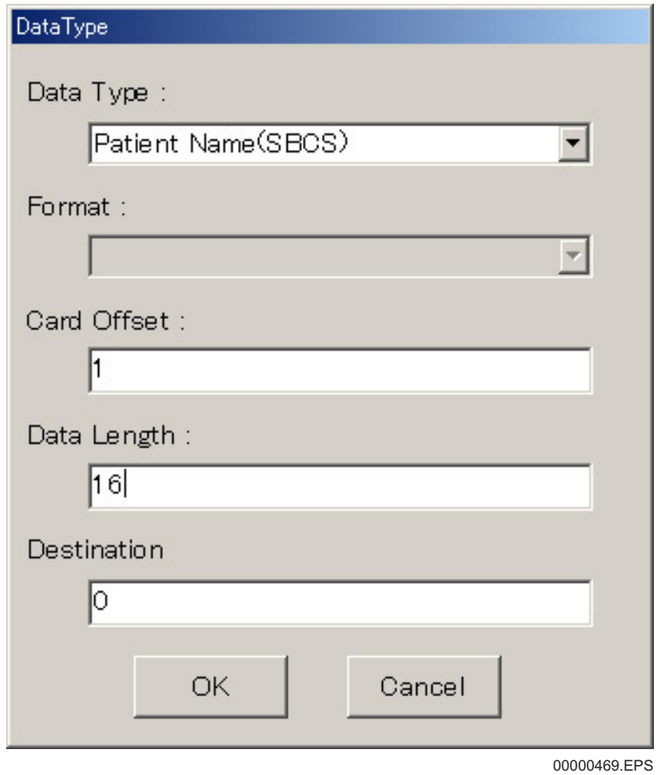
5. Click Add **and perform “Patient Name” setup as indicated in the window shown below:**



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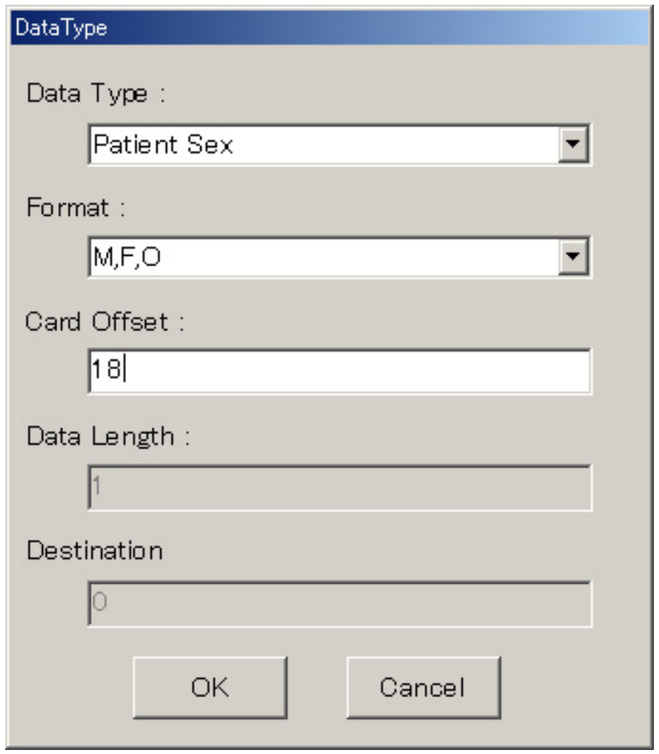
◆ *NOTES* ◆

- *When performing patient name setup for 1-byte code katakana (Japanese language version), choose "Patient Name (SBCS)". Choosing "Patient Name (SBCS)" automatically adds the "SI/SO" code to both ends of data.*
- *Since the code next to "STX" is regarded as "0" for counting purposes, enter "1" in the "Card Offset" field.*

6. **Click [Add] and perform "Sex" setup as indicated in the window shown below:**



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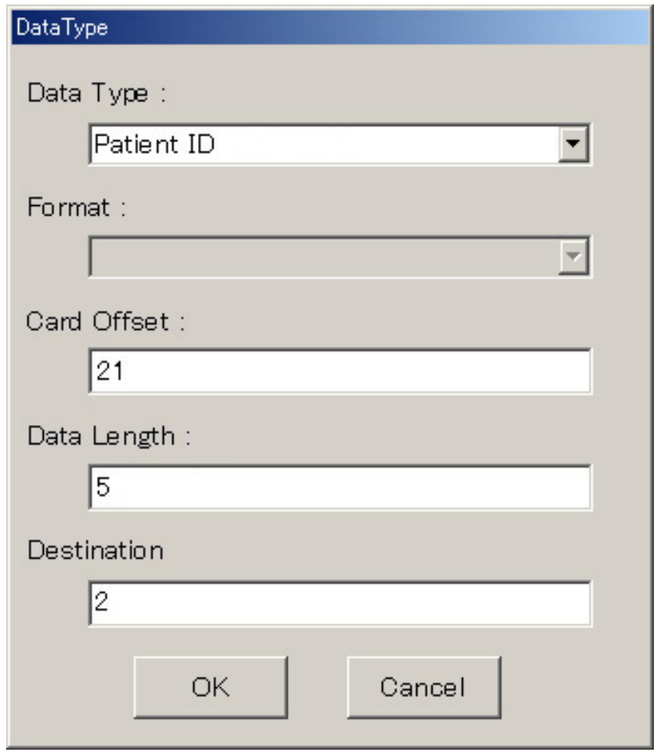
7. **Click [Add] and perform "Patient ID" number setup as indicated in the window shown below:**



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◆ *NOTE* ◆

Since the third to seventh digits of a hospital card patient ID number are to be loaded, pay due attention to the "Card Offset", "Data Length", and "Destination" settings.

- ❍ *Card Offset*
  Since the patient ID number data begins with the 21st digit and does not use the two highest digits, enter "21".
- ❍ *Data Length*
  Since five digits are to be used, enter "5".
- ❍ *Destination*
  Since data loading begins with the third digit of the patient ID area, enter "2".

Card Offset	18	19	20	21	22	23	24	25	26	27	28	29	
Digit	20	21	22	23	24	25	26	27	28	29	30	31	
Content	Sex (1-digit)	1	1	5	2	4	4	9	3	5	1		Birth date/ year (4-digit)
		Patient ID number (10-digit)											
		Not used		Data to be loaded into CL					Not used				

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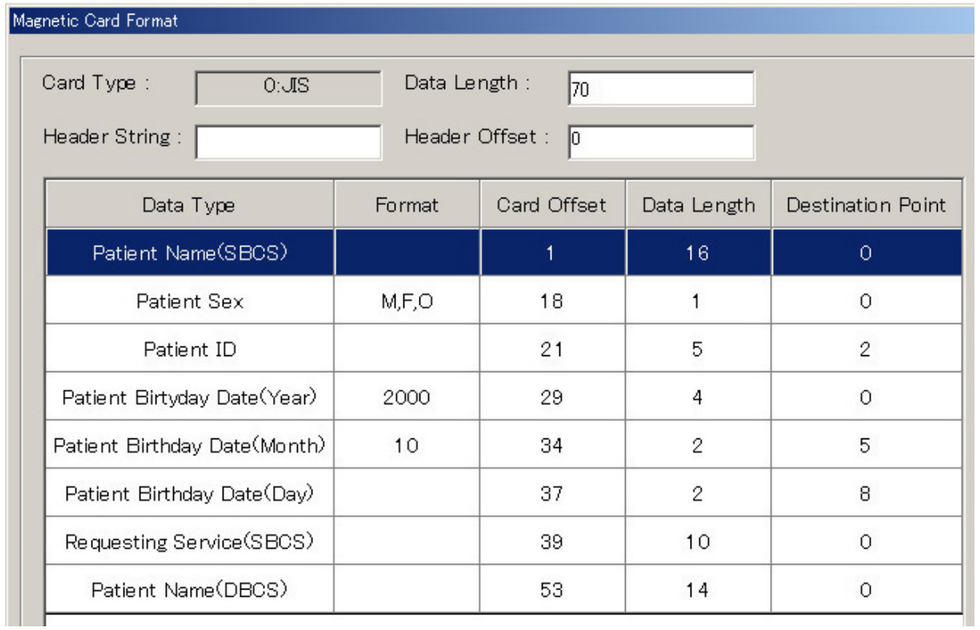
8. **Set the remaining items in accordance with the following table:**

	Date Type	Format	Card Offset	Data Length	Destination
Birth date/ year (4)	Patient Birthday Date (Year)	2000	29	4	0*
Birth date/ month (2)	Patient Birthday Date (Month)	10	34	2	5*
Birth date/ day of the month (2)	Patient Birthday Date (Date)	—	37	2*	8*
Alphanumeric department name (10)	Requesting Service (SBCS)	—	39	10	0
Kanji name (14)	Patient Name (SBCS)	—	53	14	0

Settings marked * cannot be changed.

➔ The resultant settings are shown below:



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9. **In the "Magnetic Card Format" window, click** OK **.**

➔ You are then returned to the "IIP Service Utility" window.

5. ID Card Data Format [Reference]

Two types of data formats are available for the ID card: JIS-II type and JIS-I type (ISO). The system codes are defined as follows depending on how the area of Extended Specification is used.

- JIS-II type : FUJI, FJ01, FJ02, FJ03, FJ04, FJ05
- JIS-I type (ISO) : FUJI, FJ51

■ JIS-II Type

● Fuji Standard Format (FUJI)

It is Fuji Photo Film's standard format, whose system code is FUJI. Since undefined regions cannot be used, they must be filled with space (20H).
Note that kanji characters cannot be used for patient names.

Digit	1	2	3	4	5	6	7	8	9	—	24	25	26	27
Content	STX	System code (FUJI)				SO/SI	Patient name (20 digits)							SO/SI

Digit	28	29	—	36	37	38	39	40	41	42	43	44	45	46	47	48
Content	Number (10 digits)					Birth date										Sex Male/Female (M) (F)
						Year				•	Month		•	Day		

("•" denotes a period.)

Digit	49	50	51	52	53	54	55	56	57	58	—	69	70	71	72
Content	Undefined (22 digits) (space: 20H)													ETX	LRC

● Extended Format (FJ01)

To use Kanji characters for the patient name, use the Extended Format. Its system code is FJ01.

Digit	1	2	3	4	5	6	7	8	9	—	24	25	26	27
Content	STX	System code (FJ01)				SO/SI	Patient name (20 digits)							SO/SI

Digit	28	29	—	36	37	38	39	40	41	42	43	44	45	46	47	48
Content	Number (10 digits)					Birth date										Sex Male/Female (M) (F)
						Year				•	Month		•	Day		

("•" denotes a period.)

Digit	49	50	51	52	53	54	55	56	57	58	—	69	70	71	72
Content	Distribution code (4 lower digits)				ESC	$	B	SI	Name in Kanji (14 digits)					ETX	LRC

● Extended Format (FJ02)

To use the department name in alphanumeric characters and distribution code, use the Extended Format. Its system code is FJ02.

Digit	1	2	3	4	5	6	7	8	9	—	24	25	26	27
Content	STX	System code (FJ02)				SO/SI	Patient name (20 digits)							SO/SI

Digit	28	29	—	36	37	38	39	40	41	42	43	44	45	46	47	48
Content	Number (10 digits)					Birth date										Sex Male/Female (M) (F)
						Year			•	Month		•	Day			

(“•” denotes a period.)

Digit	49	50	—	55	56	57	58	—	63	64	65	—	69	70	71	72
Content	Alphanumeric department name (8 digits)					Distribution code (8 digits)					Undefined (6 digits)				ETX	LRC

● Extended Format (FJ03)

To use the test number and alphanumeric department name, use the Extended Format. Its system code is FJ03.

Digit	1	2	3	4	5	6	7	8	9	—	24	25	26	27
Content	STX	System code (FJ03)				SO/SI	Patient name (20 digits)							SO/SI

Digit	28	29	—	36	37	38	39	40	41	42	43	44	45	46	47	48
Content	Number (10 digits)					Birth date										Sex Male/Female (M) (F)
						Year			•	Month		•	Day			

(“•” denotes a period.)

Digit	49	50	—	55	56	57	58	—	65	66	67	68	69	70	71	72
Content	Alphanumeric department name (8 digits)					Examination number (10 digits)					Undefined (4 digits)				ETX	LRC

● Extended Format (FJ04)

To use the department name in alphanumeric characters and distribution code, use the Extended Format. Its system code is FJ04.

Digit	1	2	3	4	5	6	7	8	9	—	24	25	26	27
Content	STX	System code (FJ04)				SO/SI	Patient name (20 digits)							SO/SI

Digit	28	29	—	36	37	38	39	40	41	42	43	44	45	46	47	48
Content	Number (10 digits)					Birth date										Sex Male/Female (M) (F)
						Year			•	Month		•	Day			

("•" denotes a period.)

Digit	49	50	—	55	56	57	58	—	65	66	67	68	69	70	71	72
Content	Distribution code (8 digits)					Examination number (10 digits)					Undefined (4 digits)				ETX	LRC

● Extended Format (FJ05)

To use the test number and alphanumeric department name, use the Extended Format. Its system code is FJ05.

Digit	1	2	3	4	5	6	7	8	9	—	24	25	26	27
Content	STX	System code (FJ05)				SO/SI	Patient name (20 digits)							SO/SI

Digit	28	29	—	36	37	38	39	40	41	42	43	44	45	46	47	48
Content	Number (10 digits)					Birth date										Sex Male/Female (M) (F)
						Year			•	Month		•	Day			

("•" denotes a period.)

Digit	50	51	—	56	57	58	59	60	61	62	63	64	—	69	70	71	72
Content	Alphanumeric department name (8 digits)					SO/SI	ESC	$	B	B	Department name in Kanji (8 digits)					ETX	LRC

■ JIS-I Type (ISO)

● Fuji Standard (ISO) Format

A standard-specification card that is not particularly specified should comply with this format. This format is supported by all FCR systems.

Digit	1	2	3	4	5	6	7	8	9	—	25	26	27	28
Content	STX	F	System code (FUJI)				Space	Patient name (20 digits)						Space

Digit	28	29	—	37	38	39	40	41	42	43	44	45	46	47	48	49
Content	Number (10 digits)					Birth date										Sex Male/Female (M) (F)
						Year			•	Month		•	Day			

(“•” denotes a period.)

Digit	50	51	52	—	76	77	78	79
Content	Undefined (28 digits)						ETX	LRC

● Extended Format (FJ51)

In the ISO specification format, to use the alphanumeric department name, distribution code, test number, use the Extended Format. Its system code is FJ51.

Digit	1	2	3	4	5	6	7	8	9	—	25	26	27	28
Content	STX	System code (FJ51)				Space	Patient name (20 digits)							Space

Digit	29	30	—	37	38	39	40	41	42	43	44	45	46	47	48	49
Content	Number (10 digits)					Birth date										Sex Male/Female (M) (F)
						Year			•	Month		•	Day			

(“•” denotes a period.)

Digit	50	51	—	56	57	58	59	—	64	65	66	67	—	74	75	76	77	78	79
Content	Alphanumeric department name (8 digits)					Distribution code (8 digits)					Examination number (10 digits)					Space (2 digits)		ETX	LRC

■ Data Definition

◆ *NOTES* ◆

- ❍ *Exercise care not to confuse the JIS and ISO cards, since they contain different character codes.*
- ❍ *Undefined regions in the recorded information must be filled with space code (JIS: 20H/ISO: 00H) if:*
  - *Some of the information to be recorded into the ID card cannot be entered; and*
  - *The number of characters actually entered is smaller than the number of characters specified in this specification.*

● STX: Start Code

This code indicates the start of text that has been written.

● System Code: Identification Code

Four-character code that identifies whether the ID card is for FCR use or not.

Identification code	Format type
FUJI	Standard format
FU** (*: numeral)	Extension format
Other	Hospital individual format

● SI/SO: Extended Code

◆ *NOTES* ◆

This code exists only in JIS.

SI and SO are used in pair as a special character to extend graphic characters.

- From SI to next SO: Graphic characters for alphabets
- From SO to next SI: Graphic characters for Katakana

● Patient Name

- For JIS
  This indicates a patient name by not greater than 20 Roman characters or Katakana graphic characters, excluding @ and *.
  To switch between alphabet and Katakana modes, use SI/SO code.

  Any SI/SO code of not greater than 20 characters of the patient name is substituted by space code (20H) and handled as part of the 20-character patient name.

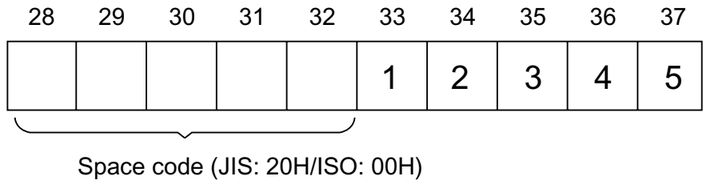
- For ISO
  This indicates a patient name by not greater than 20 Roman characters or Roman special characters, excluding @ and *.

  For Roman special characters, set MAG CARD of the IDT management information to 1, and set Roman special character codes and characters used in “Setting Character Code for Reading ISO Card.”

● Number: Patient Number

This indicates a patient number for identifying the patient by graphic characters in alphabetic mode, excluding @ and *.

If the patient number falls short of ten digits, enter characters from the right-most location, and fill the rest with space code (JIS: 20H/ISO: 00H).

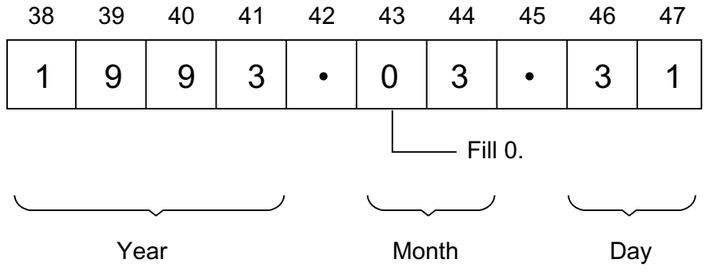


● Birth Date: Patient Birth Date

This indicates the patient's birth date in the dominical year.

- Year : Four digits from 0 to 9.
- Month : Two digits from 0 to 9.
- Day : Two digits from 0 to 9.

If the number of digits for the birth date falls short of its effective number of digits, enter numbers from the right-most location, and fill the rest with zero (JIS: 30H/ISO: 10H).



◆ ***NOTE*** ◆

"•" *in the 42nd and 45th digits denotes a period (JIS:2EH/ISO:0EH).*

● Sex: Patient Sex

The sex of a patient is denoted by one alphabetic character.

- Male : M
- Female : F

- Distribution Code (8 digits)

  The distribution code is used to set a destination of image data transfer. If the distribution code falls short of eight digits, enter characters from the right-most location, and fill the rest with space code (JIS: 20H/ISO: 00H).

  Correspondence between the transfer destination and distribution code value may be set arbitrarily by the user.

  When this code is not used, fill it with space code (JIS: 20H/ISO: 00H).

			1	2	3	4	5

Space code (JIS: 20H/ISO: 00H)

- Examination Number (10 digits)

  The examination number represents the data transferred mainly from the hospital information system to identify the distinction between examinations conducted. If the examination number falls short of ten digits, enter characters from the right-most location, and fill the rest with space code (JIS: 20H/ISO: 00H).

  This code is not used for control purposes.

  When this code is not used, fill it with space code (JIS: 20H/ISO: 00H).

					1	2	0	4	5

Space code (JIS: 20H/ISO: 00H)

- ETX: End Code

  This code indicates the end of text.

- LRC: LRC Code

  LRC denotes a horizontal redundancy code for a horizontal parity check bit of information characters recorded.

  Horizontal parity check is performed from the start code to the end code.

Appendix 5 Procedures for Changing the CL and RU IP Addresses

This appendix explains about the procedures for changing the CL and RU IP addresses.
The IP addresses need to be changed in the following cases:

Case 1: When changing the CL/RU network configuration from the stand-alone type to the network type
Case 2: When the CL and RU IP addresses need to be changed for hospital network management purposes

◆ ***NOTE*** ◆

Windows 2000 screens are used herein, whose contents are the same as those displayed by Windows XP.
When setting procedures to be performed are different between Windows 2000 and Windows XP, follow the procedure specific to the used OS to perform necessary settings.

1. Incorporating into the Network

In compliance with the hospital network specifications, connect the CL and RU network cables to the hospital's network.

2. Changing the Software Settings

Change the IP addresses for the CL and RU as summarized herein:

RU IP address : 172.16.1.10 → 200.150.100.50
CL IP address : 172.16.1.20 → 200.150.100.10

To perform necessary procedures, observe the workflow below:

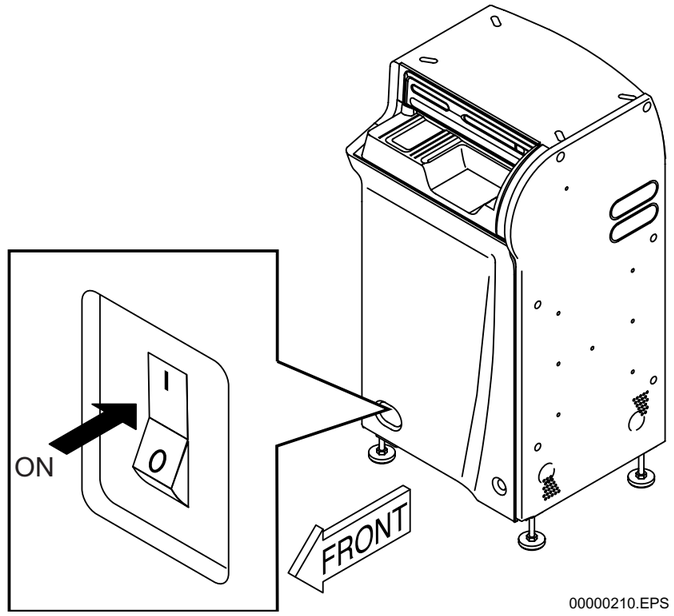
- ■ Changing the RU-Config
- ■ Changing a setting from the CL's Service Utility
- ■ Changing the CL-PC IP address
- ■ Verifying the connection after IP address changes
- ■ Changing the IDT CONNECTING configuration

■ Changing the RU-Config

◆ *NOTES* ◆

- *Before proceeding to perform the procedure set forth below, exit the CL-AP.*
- *RU M-Utility is used for RU-Config setup. However, the setup procedure varies with the employed RU M-Utility version. When the employed version is 1.2 or later (when RU M-Utility is installed from RU application CD-ROM version A07 or later), you only have to perform steps 1. through 7.*
  However, if the employed RU M-Utility version is 1.1 or earlier (when RU M-Utility is installed from RU application CD-ROM version A06 or earlier), you have to perform all steps.

1. **Turn ON the RU power.**

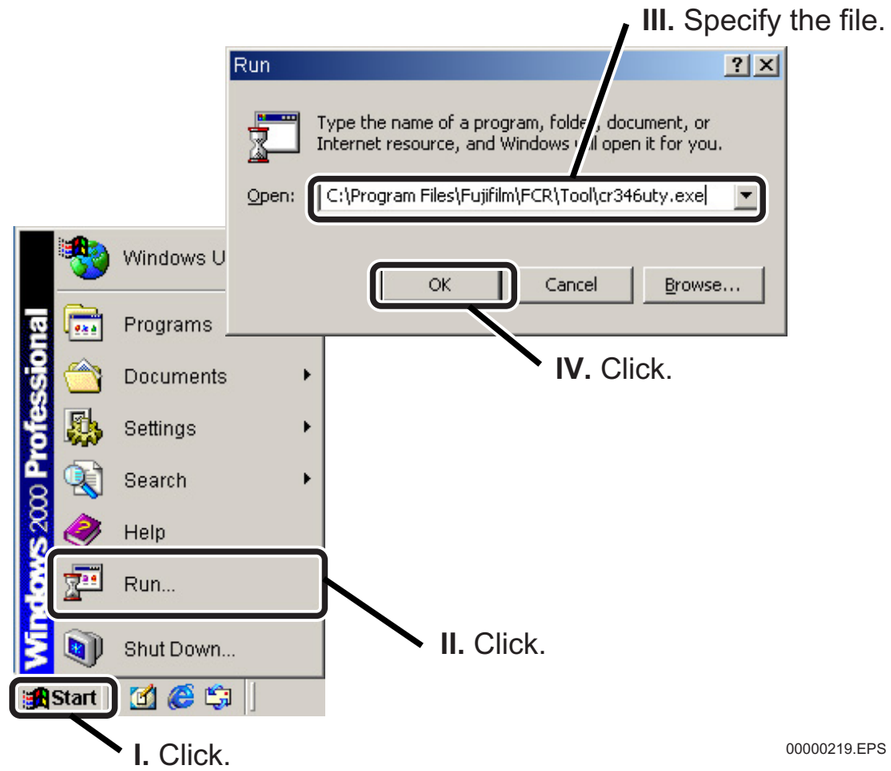


00000210.EPS

2. **Start the RU M-Utility as directed below:**

◆ *NOTE* ◆

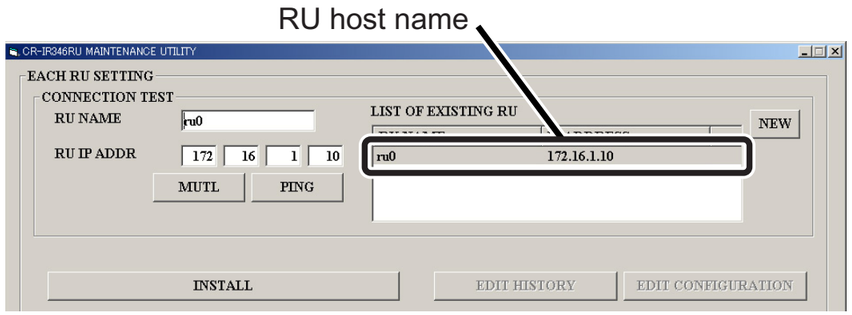
AP such as the Explorer should have not been started. If already started, shut it down.



00000219.EPS

➔ The RU M-Utility main menu opens.

3. From the “LIST OF EXISTING RU” area, click the host name of the RU whose configuration file is to be set.



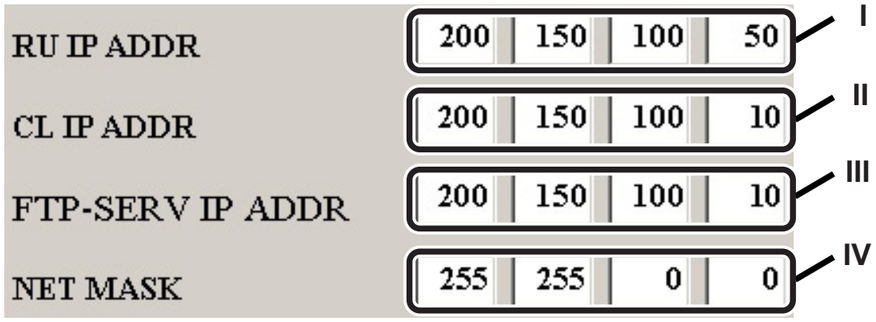
00000434.EPS

➔ The text color of the “EDIT CONFIGURATION” button changes from gray to black.

4. Click EDIT CONFIGURATION .

➔ The “READER UNIT SETTING” window opens.

5. Perform the following setup steps:



00000429.EPS

I. Enter a new RU IP address (e.g., 200.150.100.50).

II. Enter a new CL IP address (e.g., 200.150.100.10).

III. Enter the FTP server IP address that is the same as that for the CL (e.g., 200.150.100.10).

IV. Enter a net mask.

6. Click SET .

➔ RU-Config installation will start.

◆◆ CAUTION ◆◆
(Applicable only for RU M-Utility version 1.2 or later.)

Never turn OFF the power to the RU or press the reset switch while the RU panel is illuminated for the RU-Config installation process, because the RU’s CPU board can be damaged.

7. Click the ✕ mark at the upper right corner of the window.

➔ The system returns to the desktop screen.

● Perform steps hereinafter (up to step 12.) only when the RU M-Utility version used is 1.1 or earlier.

8. From the Start menu, sequentially choose “Programs”, “Fuji Film”, and then “FCR”.

◆◆ CAUTION ◆◆

Never turn OFF the power to the RU or press the reset switch while the RU panel is illuminated, because the RU’s CPU board can be damaged.

➔ The CL-AP starts up in about one minute.
The RU-Config file in the RU FLASH ROM will be updated.
(The RU LED lights and a beep sounds.)

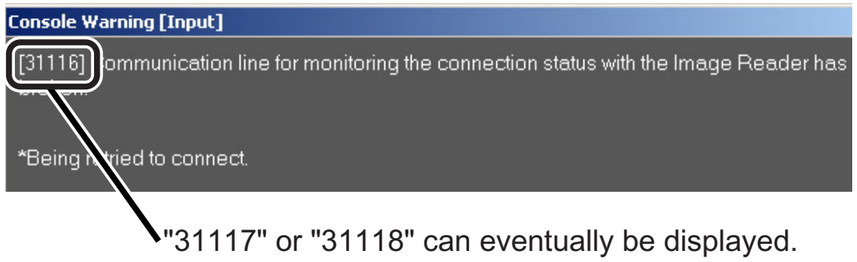
➔ The CL monitor displays a message indicating that the RU-Config file is being updated.

[11025]
[11025] RU: CONFIGURATION UPDATE. Reboot the RU.
REBOOT
A message appears to indicate that the RU-Config file is being updated.

00000270.EPS

9. **Click REBOOT on the CL monitor.**

➔ The error window opens in a few seconds.


Console Warning [Input]
[31116]
ommunication line for monitoring the connection status with the Image Reader has
*Being r tried to connect.
"31117" or "31118" can eventually be displayed.

00000601.EPS

10. **Click OK.**

11. **Click FUJIFILM (or FCR).**

➔ A menu opens.

12. **Hold down the <Shift> key and click Shut Down.**

➔ The CL-AP exits and the system returns to the desktop screen.

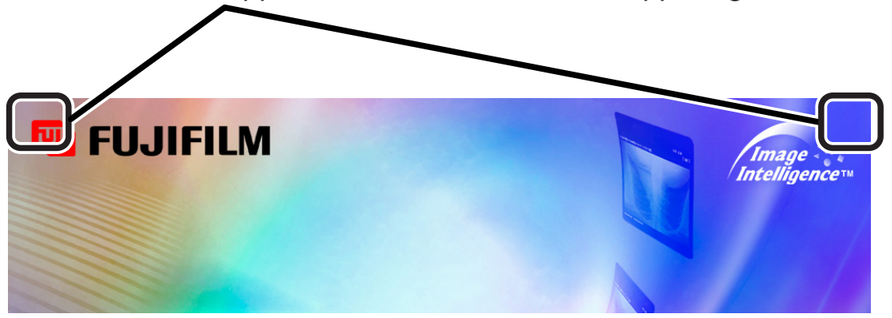
■ Changing a setting from the CL's Service Utility

1. **Click Start and then sequentially choose "Programs", "Fuji Film", and "FCR".**

➔ The CL-AP starts up.

2. **Within a period of 3 seconds after the initial window opens, sequentially click the upper left and upper right corners of the window.**

Click the upper left corner and then the upper right corner.



00000118.EPS

➔ The Service Utility starts. The "IIP Service Utility" window opens.

➥ *REFERENCE*

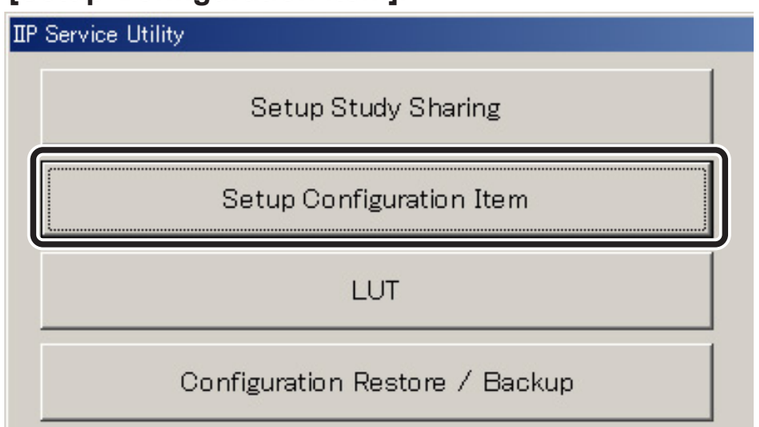
If you cannot complete step 2. from the initial window within a 3-second period and allow the AP to start up, perform the following steps to start the Service Utility:

1. To exit the AP, hold down the <Shift> key and choose "Shut Down" on the FUJIFILM (or FCR) menu.

2. From the "Start" menu, sequentially choose "Programs", "FUJIFILM", and "FCR".

3. When the initial window opens, sequentially click its upper left and upper right corners within a period of 3 seconds.

3. **Click [Setup Configuration Item].**



00000159.EPS

➔ The “Setup Configuration Item” window opens.

4. **Click the ⊞ sign within ⊟ NETWORK CONFIG.**

5. **Click the ⊞ sign within ⊞ ALL OTHER NODES and then select ⊞ ru0.**

➔ The “HostName” window opens in the right-hand area of the window.

6. **Enter a new RU IP address (e.g., 200.150.100.50) in the**

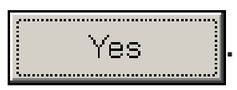
field.

7. **Click**

8. **From the “Config (F)” menu, choose “Save”.**

➔ A window opens, prompting you to confirm the setup data to be saved.

9. **Click**



.

➔ The system saves the setup data.

■ Changing the CL-PC IP address

1. Make settings as follows.

● **For Windows 2000**

- **Double-click**

on the desktop.

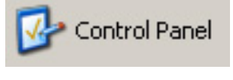
➔ The “My Computer” window opens.

- **Double-click**

.

➔ The “Control Panel” window opens.

● **For Windows XP**

- **Select** 

from the

menu.

➔ The “Control Panel” window opens.

2. Double-click

.

➔ The “Network and Dial-up connection” window opens.

3. Double-click

.

➔ The “Local Area Connection” window opens.

➥ *REFERENCE*

On Windows 2000/XP, the “Local Area Connection” icon may not appear on the display if your PC is not connected to other equipment (RU) with a network cable.

4. Click

.

➔ The “Local Area Connection Properties” window opens.

5. Choose

and then click

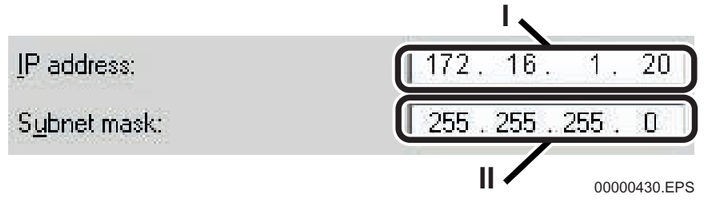
.

➔ The “Internet Protocol (TCP/IP) Properties” window opens.

6. Choose

.

7. Perform the following setup steps:



I. Enter a new CL IP address (e.g., 200.150.100.10).
II. Enter a subnet mask.

8. Click

.

➔ You are returned to the “Local Area Connection Properties” window.

9. Click

.

➔ The system returns to the desktop screen.

➥ *REFERENCE*

When a window appears prompting you to restart the system, click [Yes].

Once the OS has started, the CL-AP will start up automatically.

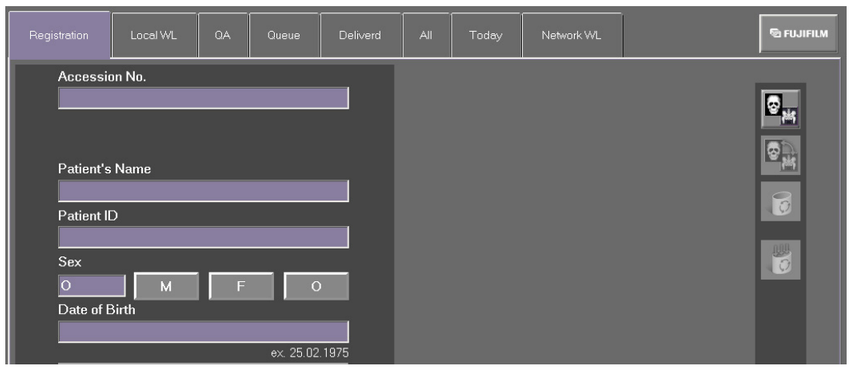
■ Verifying the connection after IP address changes

1. **Click Start and then sequentially choose "Programs", "Fuji Film", and "FCR".**

➔ The CL-AP starts up in about one minute.

The RU initialization message appears on the CL monitor. The RU becomes available in about two minutes.

- **Version A software**



IN000025.EPS

- **Version B software**

IN000128.EPS

➥ ***REFERENCE***

If the RU initialization message does not appear on the CL's monitor, restart both the CL and RU.

2. **From the CL user window (Registration), set patient data and exposure menu, and then click Start Study.**

➔ Both the CL-AP window lamp and the RU panel's cassette insertion lamp go on.

3. **Set the cassette in the RU's cassette setting unit and make sure that images are transferred to the CL.**

➥ ***REFERENCE***

Be sure not to incorrectly enter an IP address for "NETWORK CONFIG" – "ALL OTHER NODES" – "ru0" settings, otherwise an image transfer error will be indicated.

4. **Click at the upper right corner of the window.**

5. **Click FUJIFILM (or FCR).**

➔ A menu opens.

6. **Hold down the <Shift> key and click Shut Down.**

➔ The CL-AP exits and the system returns to the desktop screen.

■ Changing the IDT CONNECTING configuration

Change the CL IP address that is set up in the IDT CONNECTING configuration.

☞ **See "3.13 Patient Information Sharing Function Setup" under "MU: Maintenance Utility".**

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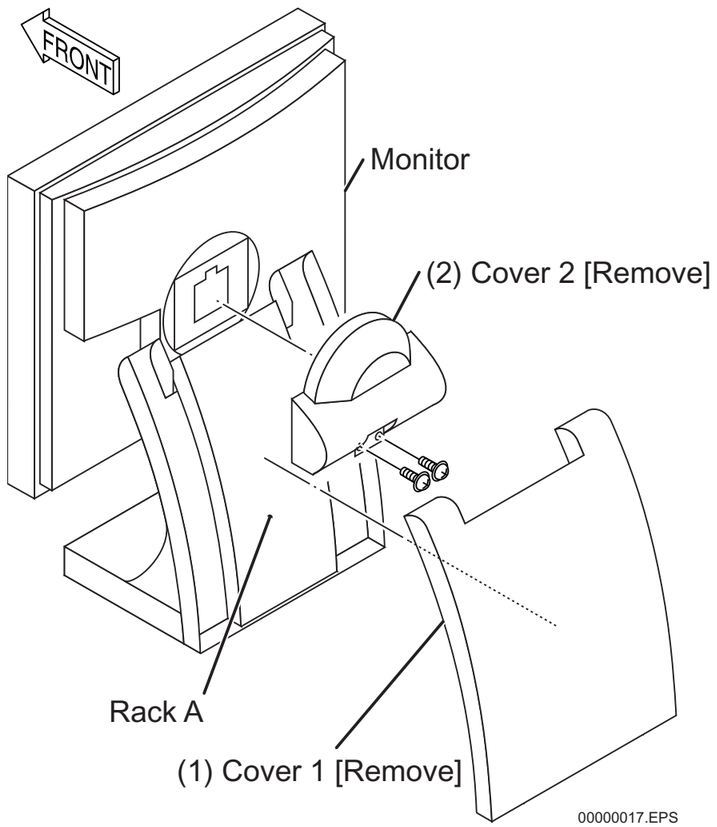
Appendix 6 Installing the Monitor Rack [Option]

Use the following procedure when replacing the rack for the touch-panel-attached 15" monitor with the optional rack.
Note that the procedure for rack replacement differs depending on the monitor type (model).

■ For TPS9415TD15

1. **Position the monitor as shown below. Remove cover 1 from rack A.**

2. **Remove cover 2.**



3. **Put the monitor face down as shown. Remove the mounting screws from rack A.**

◆ ***NOTE*** ◆

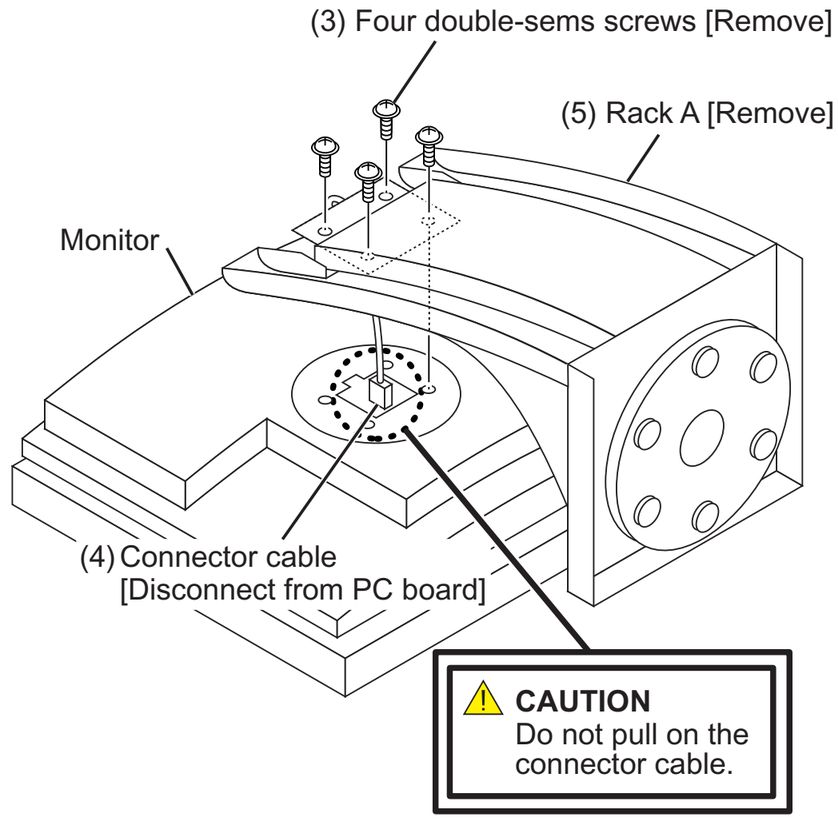
Check for foreign matter beneath the monitor surface. Observe this precaution to avoid damaging the monitor.

4. **Disconnect the connector cable from the PC board.**

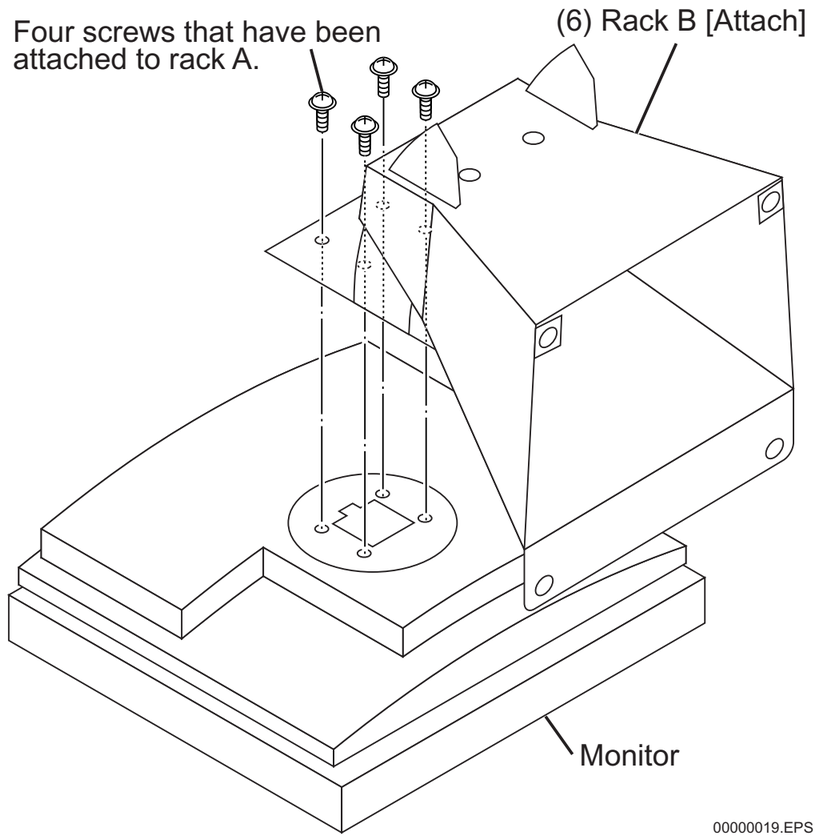
◆ ***NOTE*** ◆

Remove rack A while exercising care not to pull on the connector cable. Failure to observe this precaution may cause damage to the PC board.

5. **Remove rack A.**



6. **Attach rack B to the monitor.**



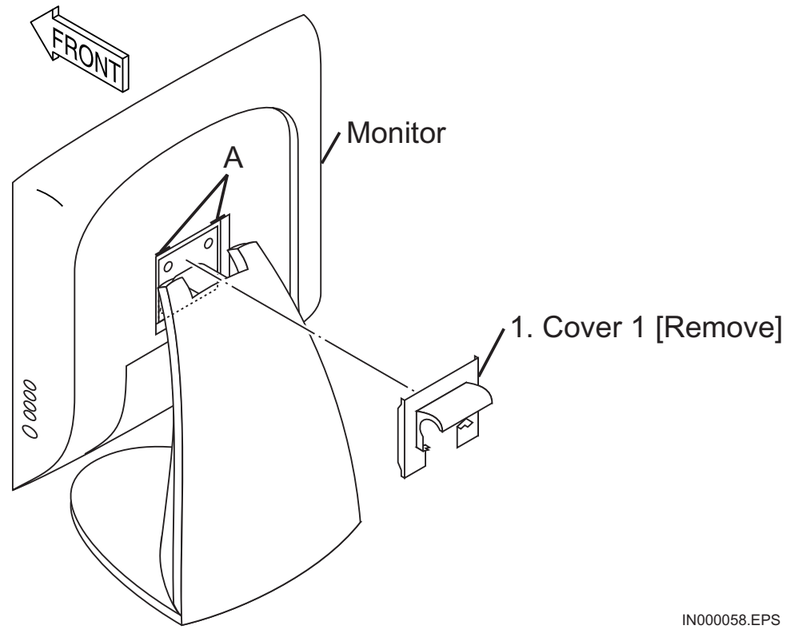
00000019.EPS

■ For TPS9416TD15

1. **Position the monitor as shown below and remove cover 1.**

◆ *NOTE* ◆

Putting a screwdriver in the clearance of cover 1 (position A) will enable you to remove it easily.



IN000058.EPS

2. **Put the monitor face down as shown. Remove the mounting screws from rack A.**

◆ ***NOTE*** ◆

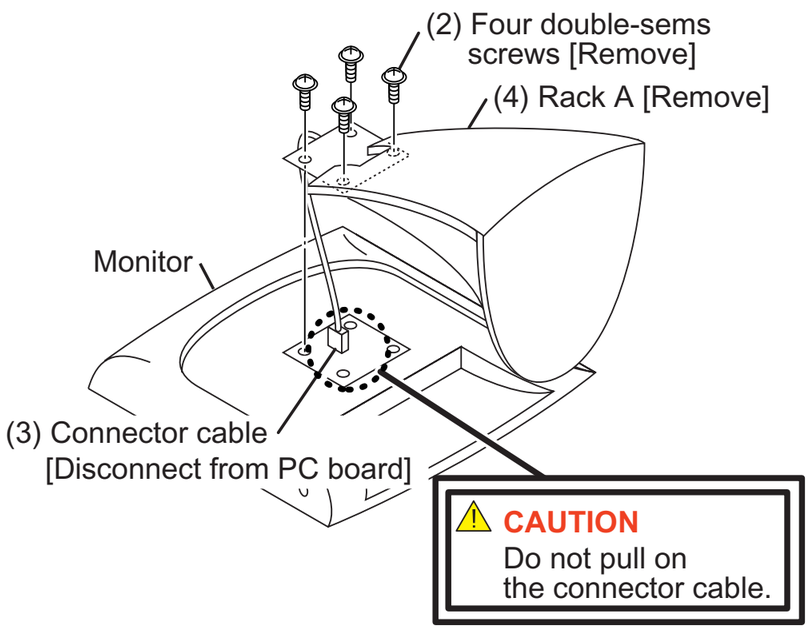
Check for foreign matter beneath the monitor surface. Observe this precaution to avoid damaging the monitor.

3. **Disconnect the connector cable from the PC board.**

◆ ***NOTE*** ◆

Remove rack A while exercising care not to pull on the connector cable. Failure to observe this precaution may cause damage to the PC board.

4. **Remove rack A.**


(2) Four double-sems screws [Remove]
(4) Rack A [Remove]
Monitor
(3) Connector cable [Disconnect from PC board]
CAUTION
Do not pull on the connector cable.

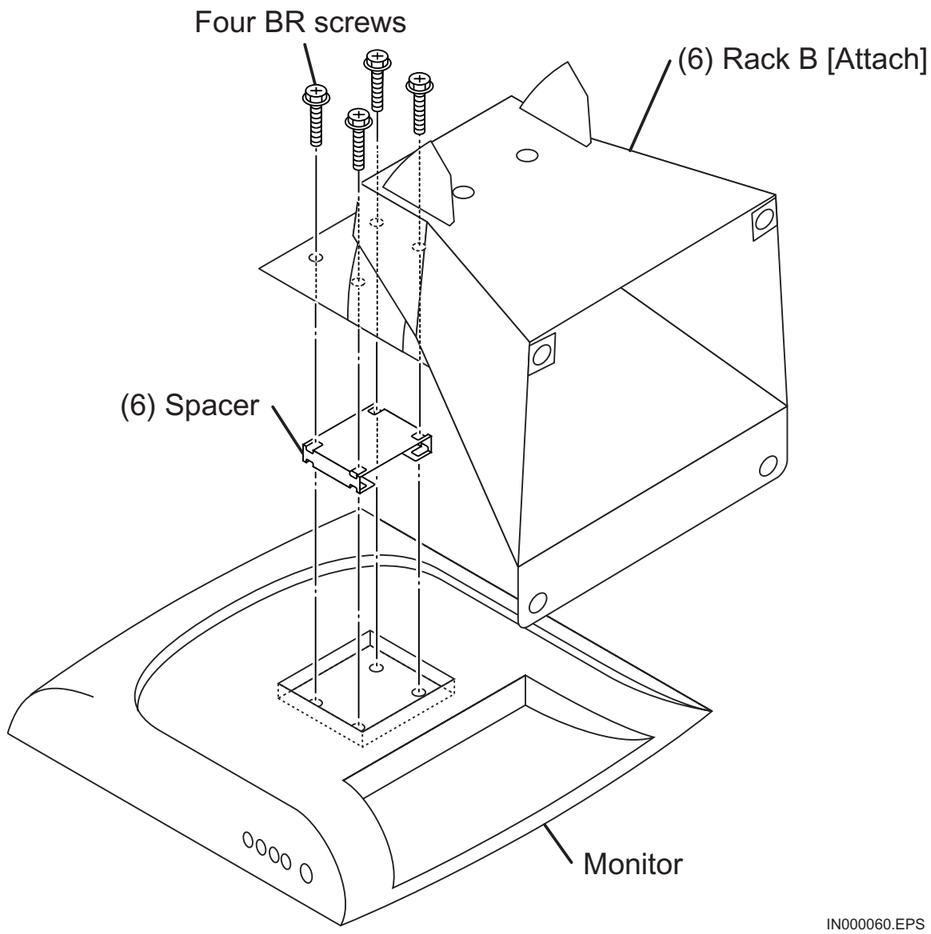
IN000059.EPS

5. **Connect the power cable, serial cable and monitor cable to the monitor.**

◆ ***NOTE*** ◆

Be sure to connect the cables and then attach rack B.

6. **Attach the spacer and rack B to the monitor (fasten the spacer together with rack B).**



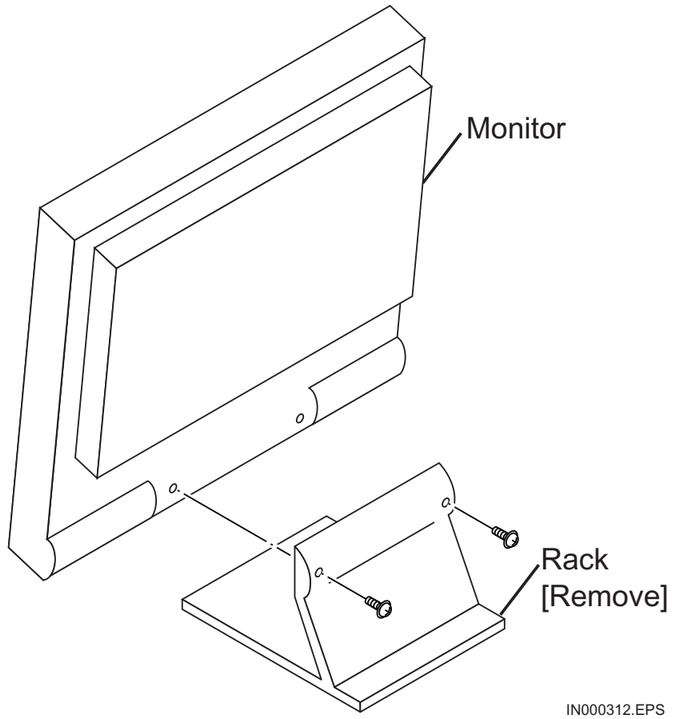
IN000060.EPS

7. **Connect the monitor cable and serial cable to the PC.**

☞ **For details of cable connection, see the Service Manual that comes with the monitor.**

■ For L350P-TS, L351P-TS, L362T (reference)

1. **Remove the rack.**



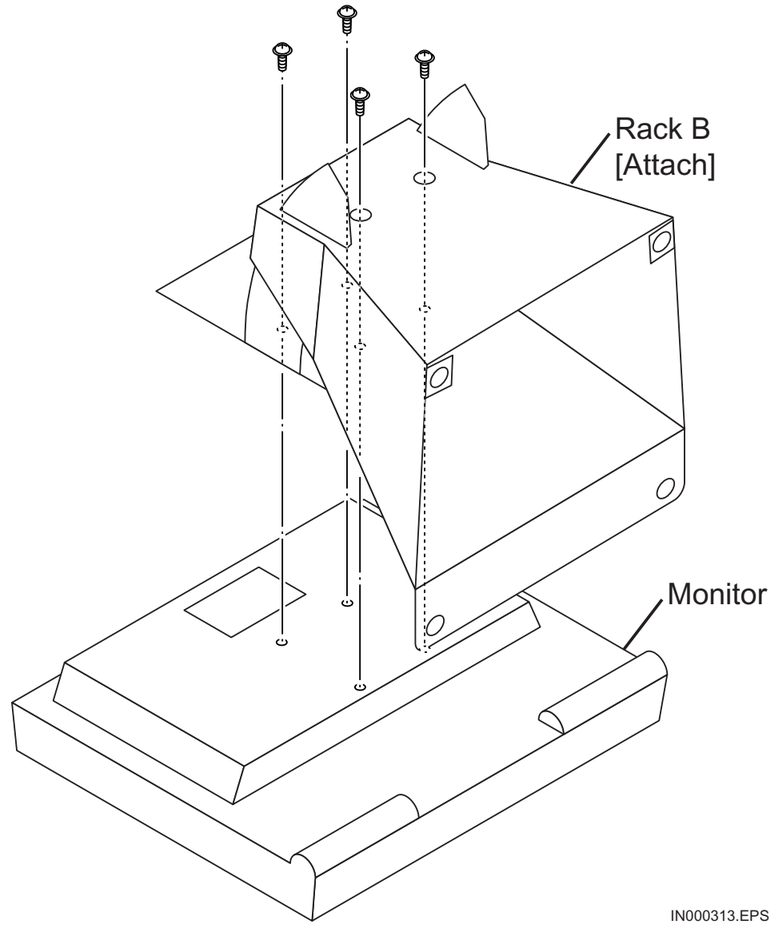
IN000312.EPS

2. **Connect the power cable, serial cable and monitor cable to the monitor.**

◆ ***NOTE*** ◆

Be sure to connect cables properly before attaching rack B.

3. **Put the monitor face down as shown below and attach rack B.**



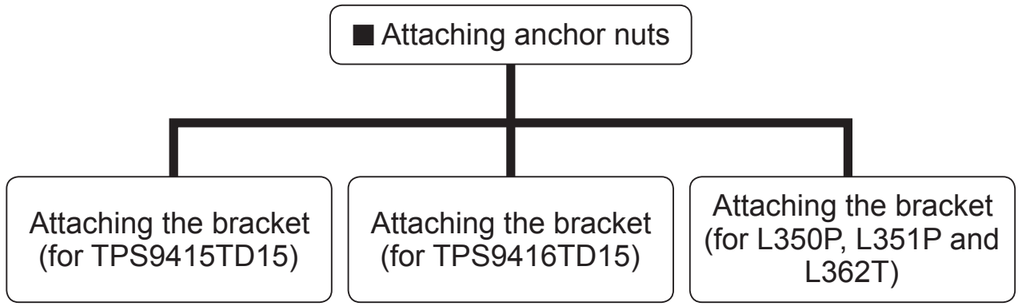
IN000313.EPS

4. **Connect the monitor cable and serial cable to the PC.**

☞ **For details of used cables, see the manual supplied with the monitor.**

Appendix 7 Attaching the Monitor Wall-Mounting Bracket [Option]

The attachment procedure to be observed differs as follows depending on the monitor type (model).


■ Attaching anchor nuts
Attaching the bracket (for TPS9415TD15)
Attaching the bracket (for TPS9416TD15)
Attaching the bracket (for L350P, L351P and L362T)

■ Attaching anchor nuts

➤ *IMPORTANT*

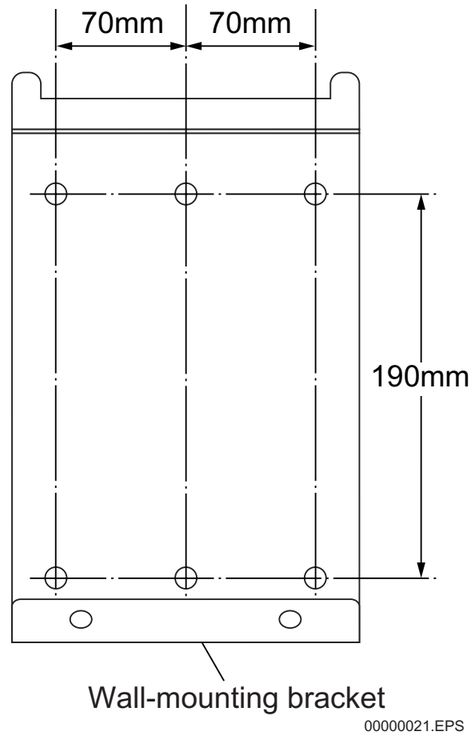
Ensure that the concrete strength of the wall on which the wall-mounting bracket is to be mounted is not less than 210 kgf/cm^2.

If the concrete strength is inadequate, the required amount of mounting strength will not be obtained. Be sure to check the concrete strength in advance.

1. Determine the wall-mounting bracket attaching position. Mark the center of each of the four wall-mounting bracket attaching holes for anchor nut installation.

◆ *NOTE* ◆

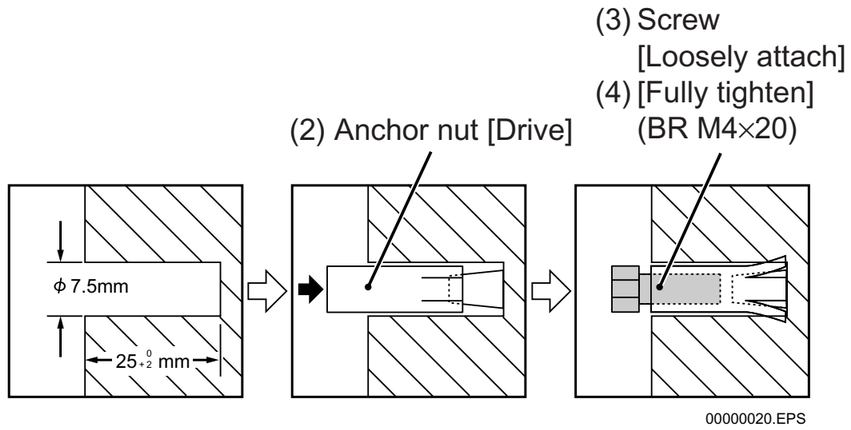
Be sure that the employed anchor nuts conform to the wall conditions (use the supplied anchor nuts).



2. **Drill holes (7.5 mm in diameter and 25 mm in depth) at the marked positions and drive four anchor nuts into the holes.**

3. **Loosely attach four screws (BR M4×20) to the anchor nuts.**

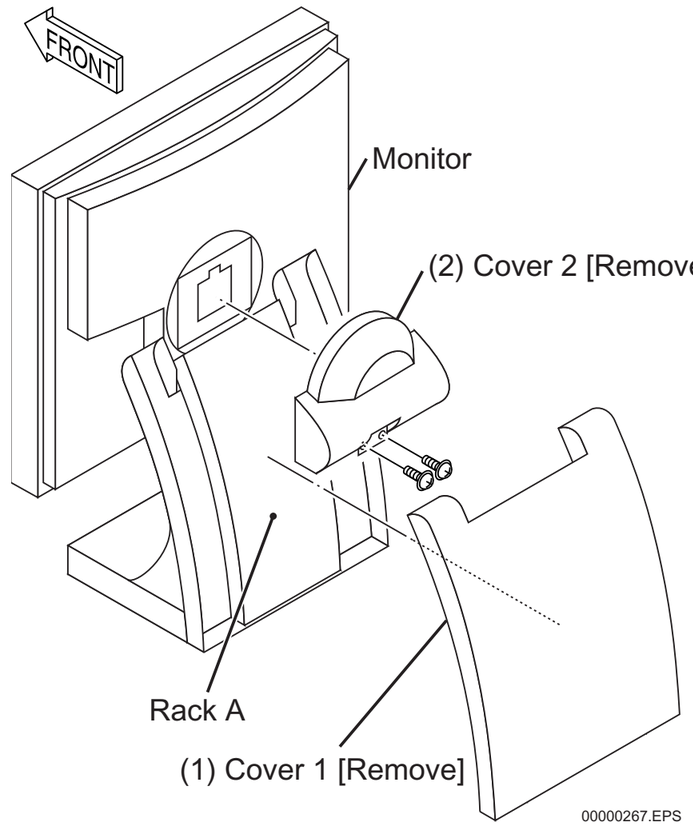
4. **Hook the wall-mounting bracket on the loosely retained screws and then tighten those screws.**



■ Attaching the bracket (for TPS9415TD15)

1. **Position the monitor as shown below. Remove cover 1 from rack A.**

2. **Remove cover 2.**



3. **Put the monitor face down as shown. Remove the mounting screws from rack A.**

◆ ***NOTE*** ◆

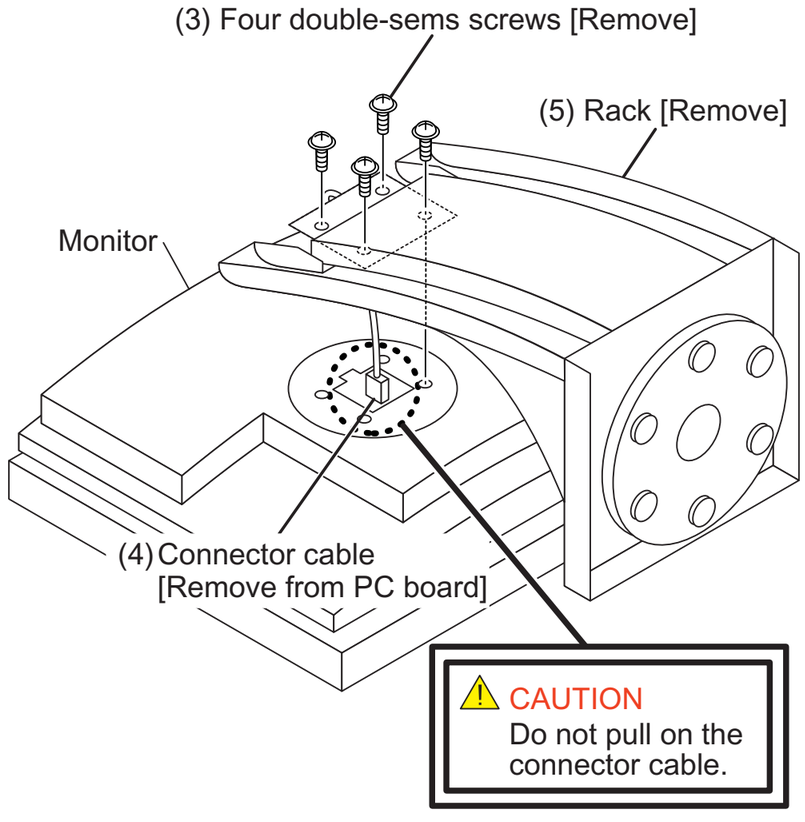
Check for foreign matter beneath the monitor surface. Observe this precaution to avoid damaging the monitor.

4. **Disconnect the connector cable from the PC board.**

◆ ***NOTE*** ◆

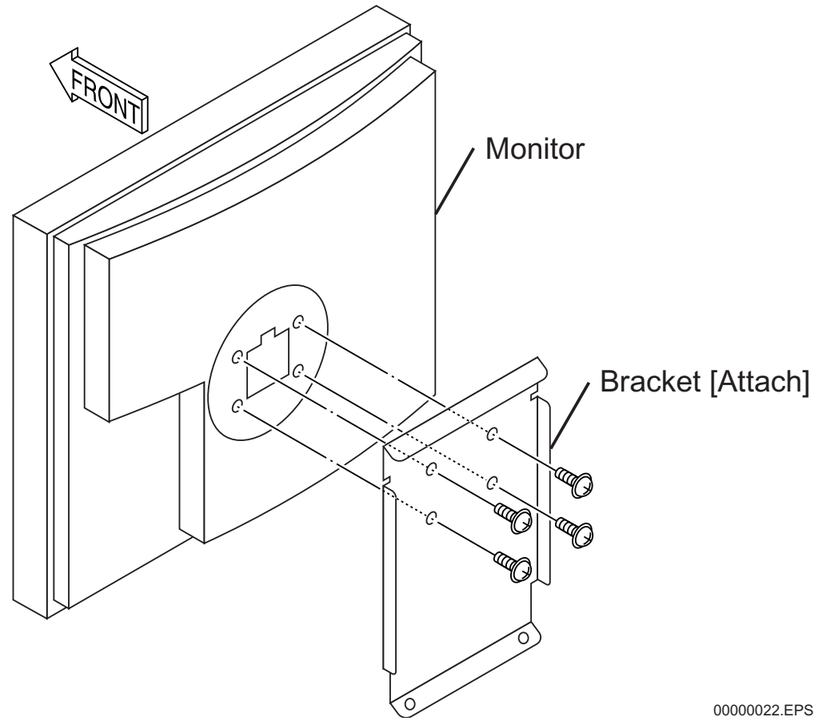
Remove rack while exercising care not to pull on the connector cable. Failure to observe this precaution may cause damage to the PC board.

5. **Remove the rack.**



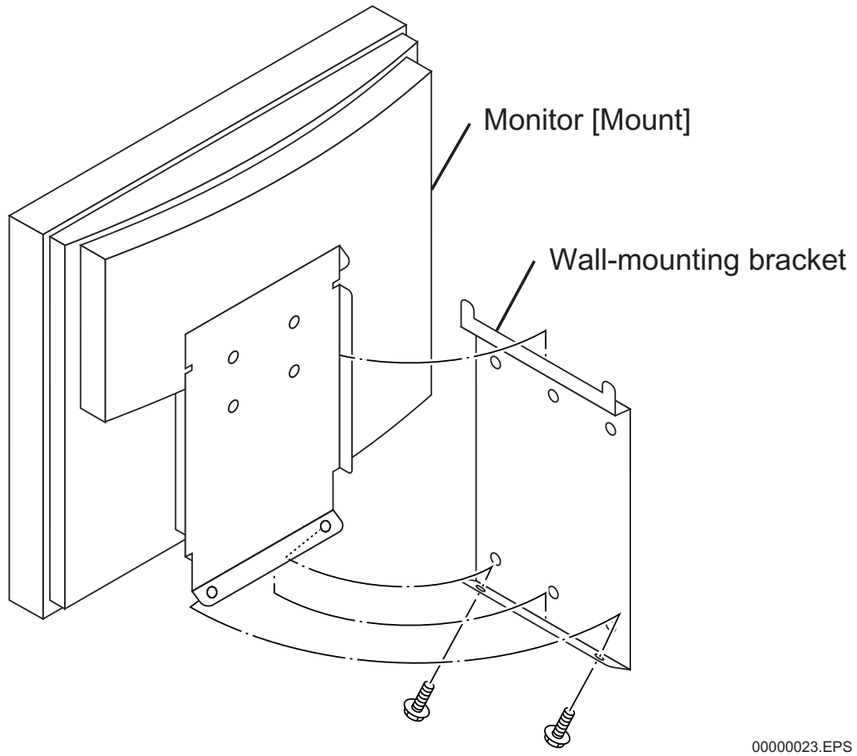
00000268.EPS

6. **Attach the bracket to the bottom of the monitor.**



00000022.EPS

7. **Mount the monitor on the wall-mounting bracket.**



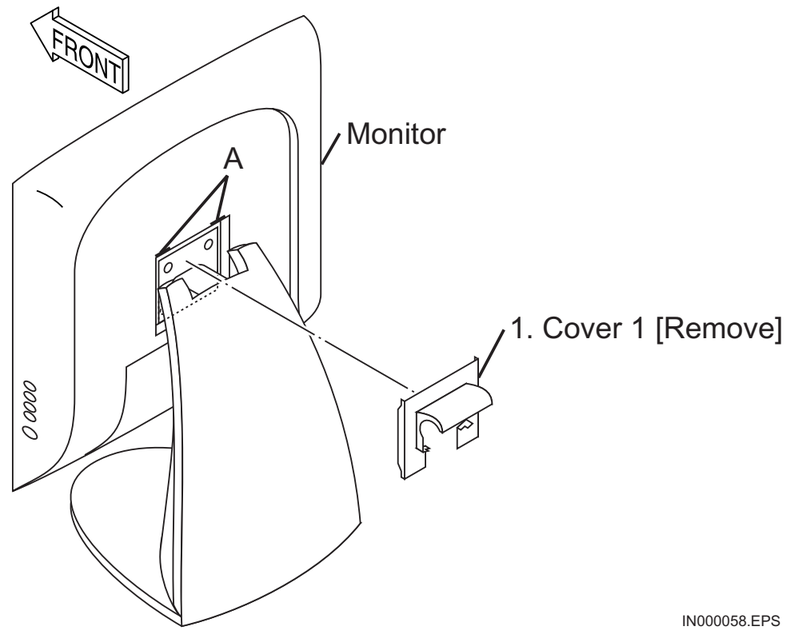
00000023.EPS

■ Attaching the bracket (for TPS9416TD15)

1. **Position the monitor as shown below and remove cover 1.**

◆ *NOTE* ◆

Putting a screwdriver in the clearance of cover 1 (position A) will enable you to remove it easily.



IN000058.EPS

2. **Put the monitor face down as shown. Remove the mounting screws from rack A.**

◆ ***NOTE*** ◆

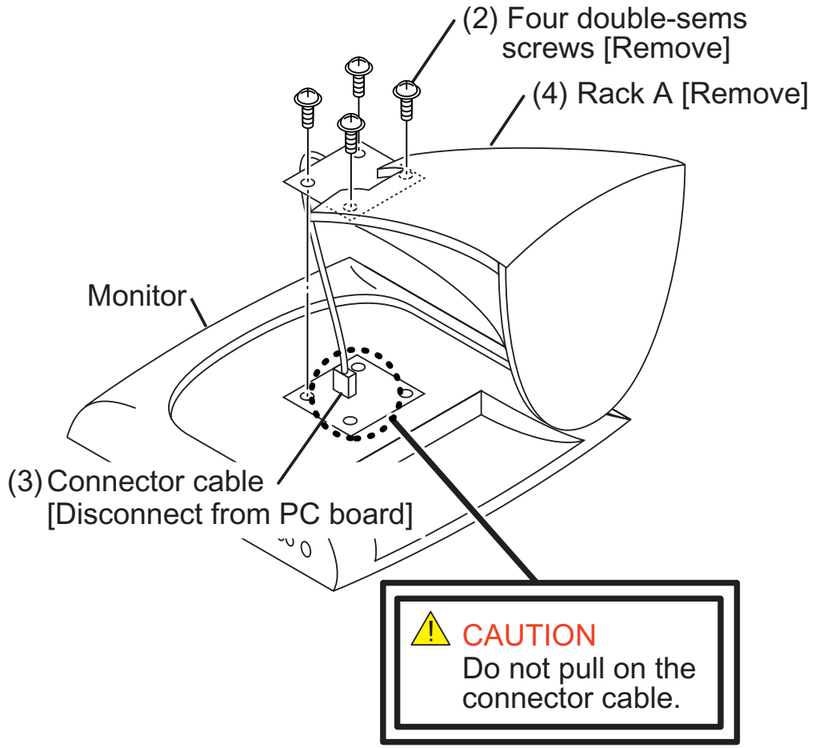
Check for foreign matter beneath the monitor surface. Observe this precaution to avoid damaging the monitor.

3. **Disconnect the connector cable from the PC board.**

◆ ***NOTE*** ◆

Remove rack A while exercising care not to pull on the connector cable. Failure to observe this precaution may cause damage to the PC board.

4. **Remove rack A.**


(2) Four double-sems screws [Remove]
(4) Rack A [Remove]
Monitor
(3) Connector cable [Disconnect from PC board]
CAUTION
Do not pull on the connector cable.

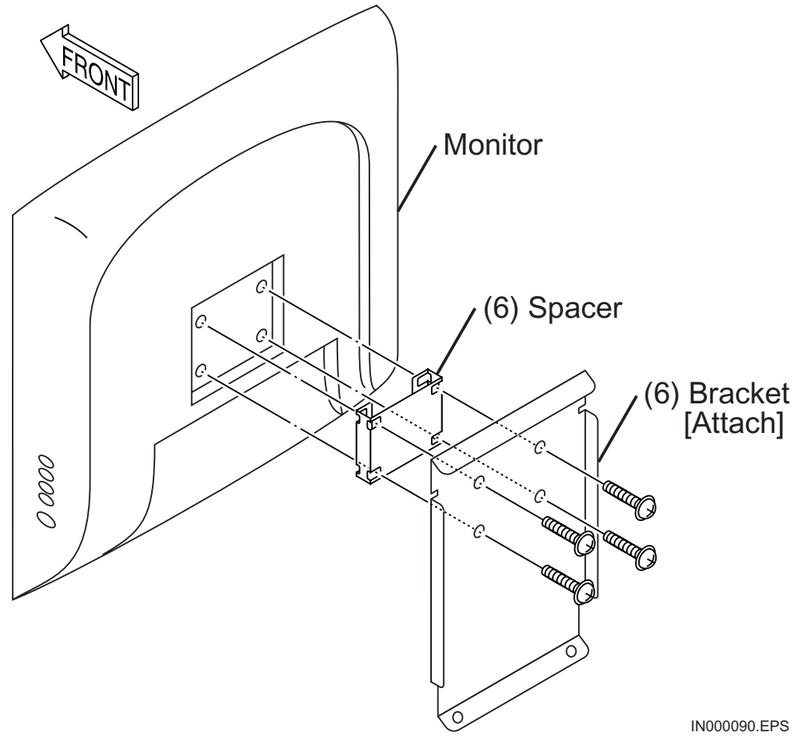
IN000091.EPS

5. **Connect the power cable, serial cable and monitor cable to the monitor.**

◆ ***NOTE*** ◆

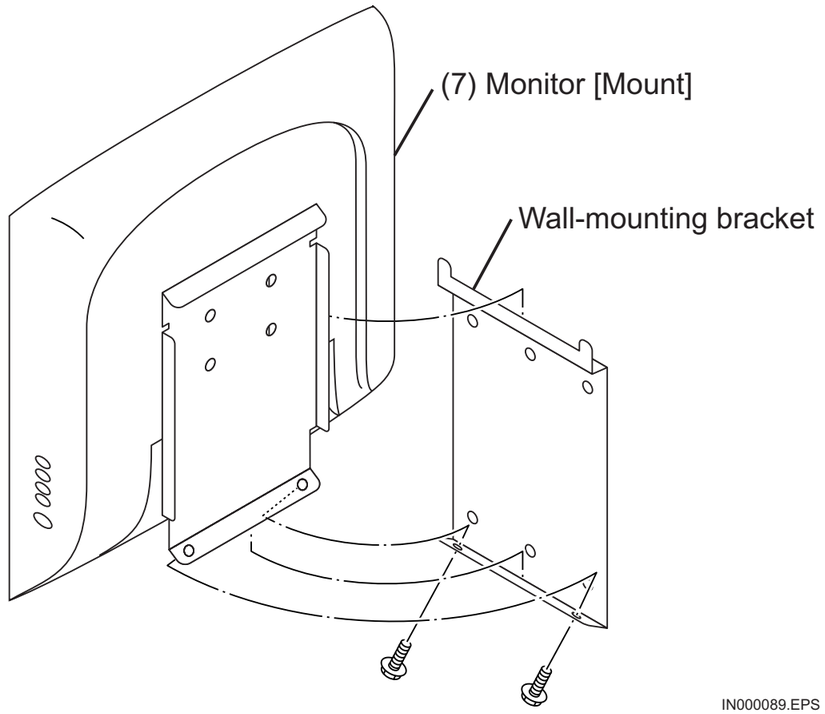
Be sure to connect the cables and then attach rack B.

6. **Attach the spacer and bracket to the monitor (fasten the spacer together with the bracket).**



IN000090.EPS

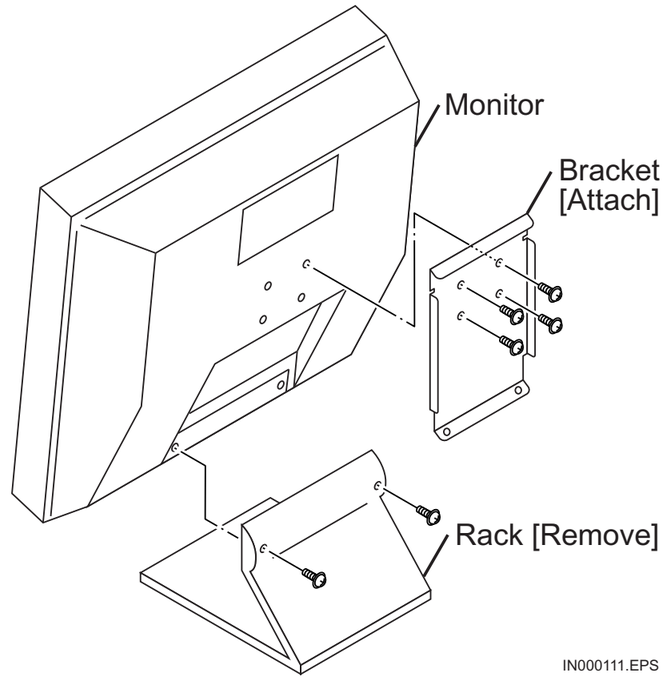
7. **Mount the monitor on the wall-mounting bracket.**



IN000089.EPS

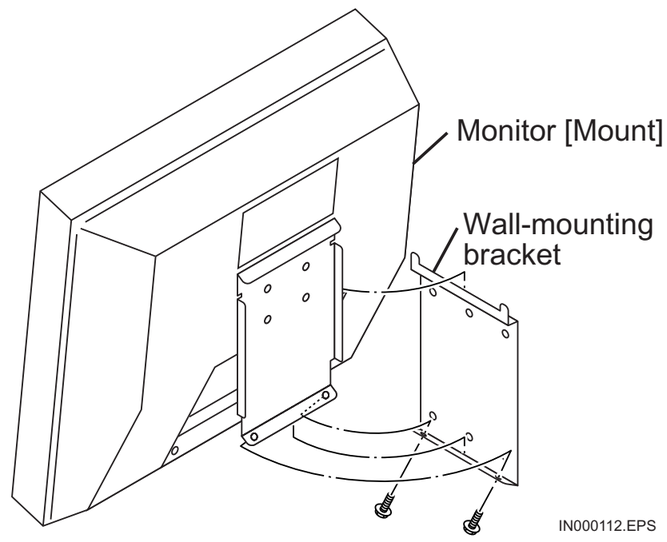
■ Attaching the bracket (for L350P, L351P and L362T)

1. **Position the monitor as shown below and remove the rack. Attach then the bracket to the monitor.**



IN000111.EPS

2. **Mount the monitor on the wall-mounting bracket.**



IN000112.EPS

Appendix 8 Changing the RU Host Name

RU M-Utility is used to change the RU's host name. However, the change procedure varies with the employed RU M-Utility version. When the employed version is 1.1 or earlier (when RU M-Utility is installed from RU application CD-ROM version A06 or earlier), perform the procedure set forth under "1. When Version 1.1 or Earlier Is Used". When the employed RU M-Utility version is 1.2 or later, perform the procedure set forth under "2. When Version 1.2 or Later Is Used".

The use of RU M-Utility version 1.2 or later makes it easier to effect a host name change. It is therefore recommended that you upgrade RU M-Utility if RU application CD-ROM version A07 or later is available.

➥ ***REFERENCE***

To upgrade RU M-Utility, first uninstall it and then install its new version.

☞ ***For the RU M-Utility uninstallation procedure, see "Appendix A Uninstalling the APs" in "RI: Reinstalling the Software" .***

☞ ***For the RU M-Utility installation procedure, see "5.2.1 Installing the RU M-Utility" in "IN-A: Installation – One RU Connection" .***

1. When Version 1.1 or Earlier Is Used

The RU host name cannot be changed with a tool such as the RU M-Utility. For this reason, change it accordingly by reinstalling the RU-AP.

◆ ***NOTES*** ◆

- *Before performing the procedures described herein, be sure to take note of all the registered RU configuration information, particularly IP address and sub-net mask, for the following reason. When reinstalling the RU-AP, it is necessary to uninstall the RU-AP that has been installed. While this processing is being performed, the RU configuration data is deleted (only data stored in the FTP server is deleted).*
- *When the OS used is Windows XP, the RU M-Utility must be of version 1.4 or later and the RU software, A09 or later.*

Change the host name according to the flow below.

- ■ Uninstalling the RU-AP
- ■ Installing the RU-AP (changing the host name)
- ■ Changing the CL Service Utility settings

■ Uninstalling the RU-AP

☞ **See "3. RU-AP" in "Appendix A Uninstalling the APs" under "RI: Reinstalling the Software".**

◆ ***NOTE*** ◆

Note that, even if two or more RUs have been registered to the RU M-Utility, just a single operation uninstalls all those RUs registered. In such a case, all those RUs must be set up anew. Thus, you have to surely jot down information on each of those RUs.

■ Installing the RU-AP (changing the host name)

◆ *NOTE* ◆

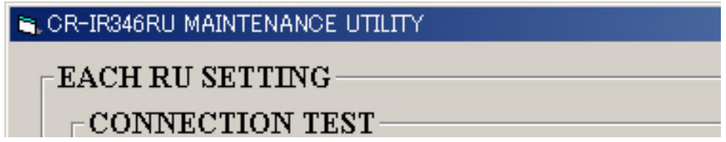
Make sure to exit all applications, particularly the Explorer or CL-AP.

1. **Insert into the CD-ROM drive the RU-CD supplied with the RU.**

➔ After a while, the “CR-IR346RU MAINTENANCE TOOLS” window opens.

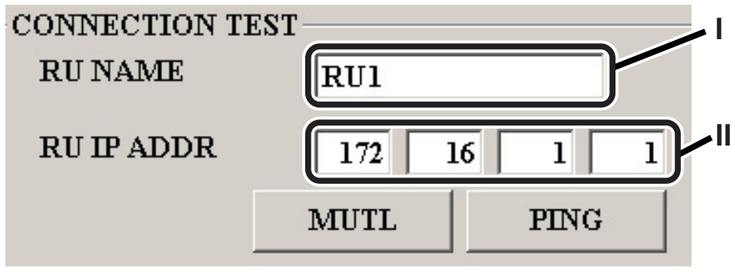
2. **Click [START].**

➔ The RU M-Utility main menu appears.



00000414.EPS

3. **Enter the RU host name to be changed and the RU IP address.**



00000426.EPS

I. Enter the RU host name (host name you wish to change).
II. Enter the RU IP address (IP address taken note of before starting the procedure).

◆ *NOTE* ◆

The host name entered at step I. above will be taken as the RU’s correct host name. Be sure to enter the correct host name at this step.

4. **Click** PING **.**

➔ Connection to the RU will then be verified.

5. **Verify network connection to the RU.**
If the following message appears four times, connection to the RU has been established accordingly.

Reply from 172.16.1.10: bytes=32 time<10ms TTL=128

➥ *REFERENCE*

Values “time<10ms” and “TTL=128” appearing in the message above can be different depending on the network status. Even if different values appear in it, network connection has been established normally.

◆ *NOTE* ◆

Before proceeding to steps hereafter, make sure that there are no problems with the network connection. An error will occur when starting up the CL if you proceed to steps hereafter without establishing network connection properly.

6. **Click the ✕ mark at the upper right corner of the command prompt window.**

➔ You are returned to the main menu.

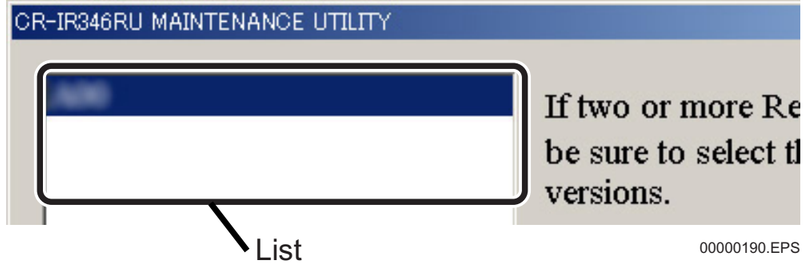
7. **Click [INSTALL] in the main menu.**

➔ The “Insert the CD-ROM into a drive” window opens.

8. **Click** OK **.**

➔ A window prompting you to select the RU-AP version opens.

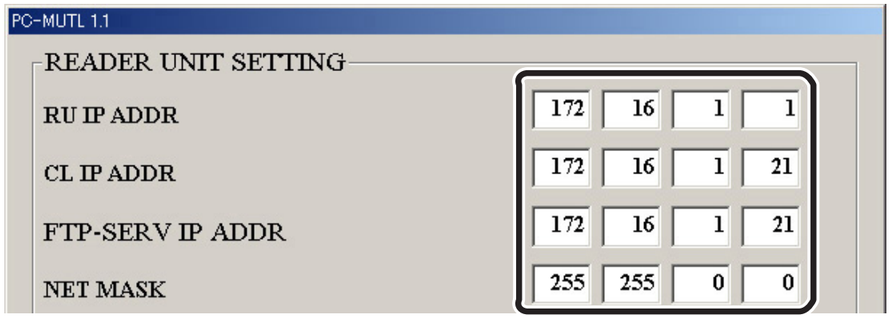
9. **Select the RU-AP version from the list and click** OK **.**



00000190.EPS

➔ The “READER UNIT SETTING” window opens.

10. **Set up configuration information items that have been taken note of before starting the procedure.**



IN000093.EPS

11. **Click** SET **.**

➔ After the completion of RU-AP installation, “Completed” will appear on the screen.

12. **Click** OK **.**

➔ You are returned to the main menu.

13. **Click the ✕ mark at the upper right corner of the window.**

➔ The system returns to the desktop window.

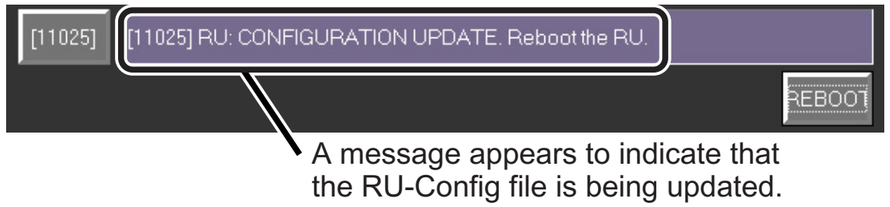
14. **From the Start menu, sequentially choose “Programs”, “Fuji Film”, and then “FCR”.**

◆◆ CAUTION ◆◆

Never turn OFF the power to the RU or press the reset switch while the RU panel is illuminated, because the RU’s CPU board can be damaged.

➔ The CL-AP starts up in about one minute.
The RU-Config file in the RU FLASH ROM will be updated.
(The RU LED lights and a beep sounds.)

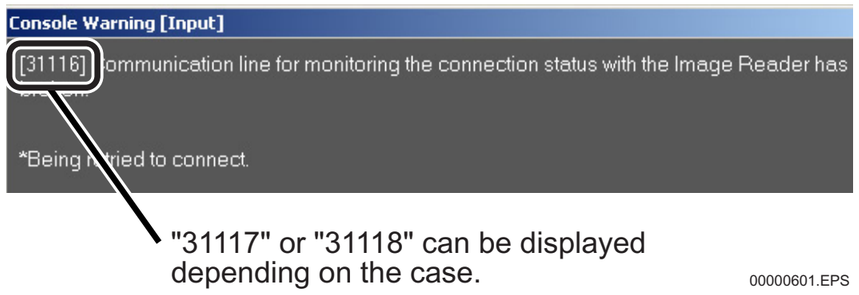
➔ The CL monitor displays a message indicating that the RU-Config file is being updated.


[11025]
[11025] RU: CONFIGURATION UPDATE. Reboot the RU.
REBOOT
A message appears to indicate that the RU-Config file is being updated.

00000270.EPS

15. **Click** REBOOT **on the CL monitor.**

➔ The error window opens in a few seconds.


Console Warning [Input]
[31116]
ommunication line for monitoring the connection status with the Image Reader has
*Being tried to connect.
"31117" or "31118" can be displayed depending on the case.

00000601.EPS

16. **Click** OK **.**

17. **Click** FUJIFILM **(or** FCR **).**

➔ A menu opens.

18. **Hold down the <Shift> key and click** Shut Down **.**

➔ The CL-AP exits and the system returns to the desktop screen.

This completes to change the RU host name.

■ Changing the CL Service Utility settings

1. **Start the Service Utility and then click [Setup Configuration Item].**

   ➔ The “Setup Configuration Item” window opens.

2. **Within the tree in the left-hand area of the window, click the ⊞ mark to the left of ⊟ NETWORK CONFIG, and then click the ⊞ mark to the left of ⊞ ALL OTHER NODES.**

3. **Choose ⊞ ru0 (the RU’s previously selected host name).**

4. **Change the** HostName : ru0 **entry in the upper right corner of the window to a new RU host name (RU1).**

5. **Click** Apply **.**

6. **From the tree in the left-hand area of the window, choose ⊟ CONNECTING EQUIPMENT, and then set the RU under “READER” Function in the right-hand area of the window to “RU1 (new host name)”.**

7. **Click** Apply **.**

8. **From the “Config (F)” menu, choose “Save”.**

   ➔ A window opens, prompting you to confirm the setup data to be saved.

9. **Click** Yes **.**

   ➔ The system saves the setup data.

The original network setup is then restored.

2. When Version 1.2 or Later Is Used

◆ *NOTES* ◆

- *Verify that Explorer or other application is not running. If any applications are running, exit them.*
- *Before proceeding to perform the procedure set forth below, exit the CL-AP.*

Perform the steps in the following workflow:

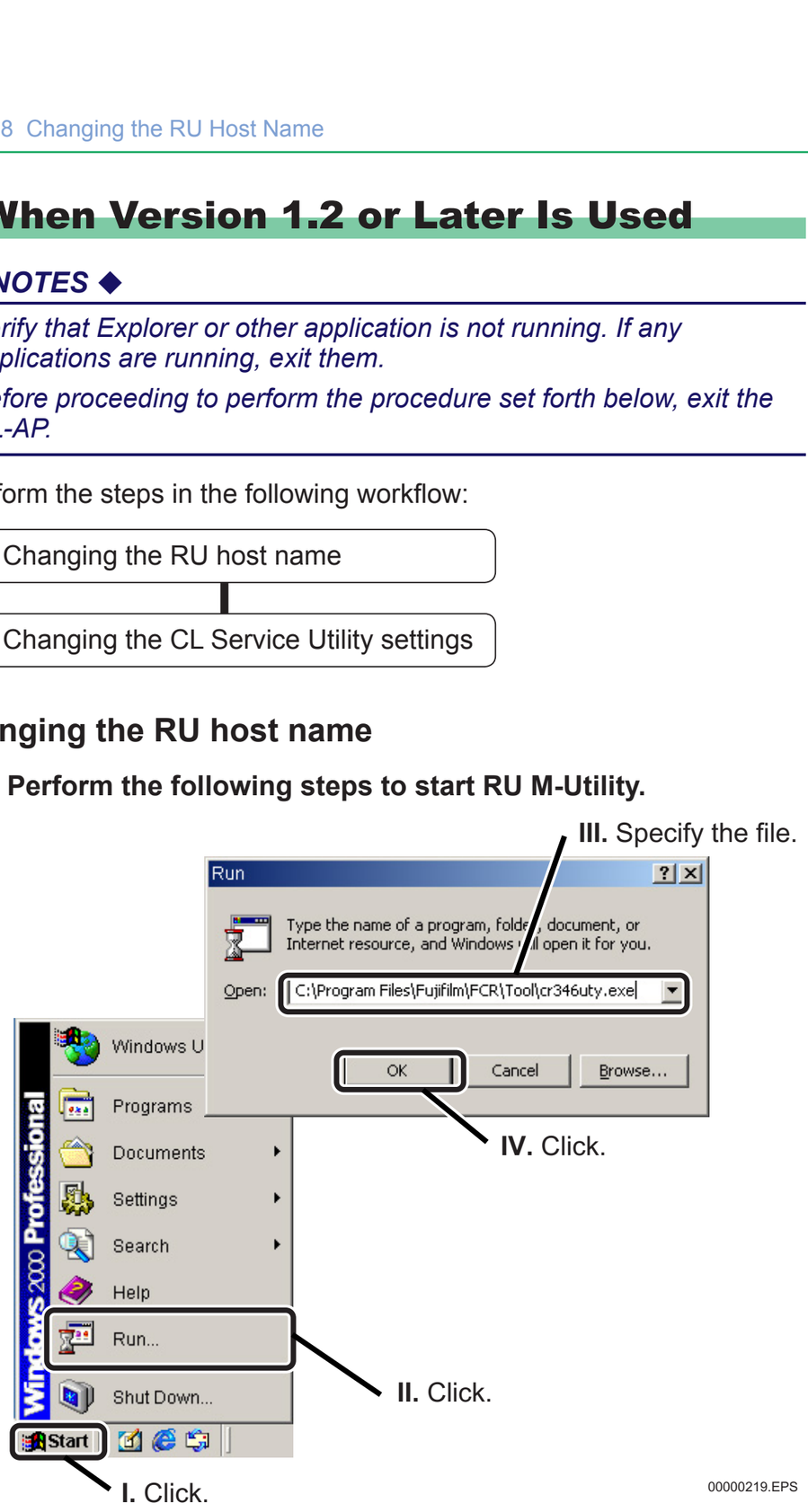
■ Changing the RU host name

↓

■ Changing the CL Service Utility settings

■ Changing the RU host name

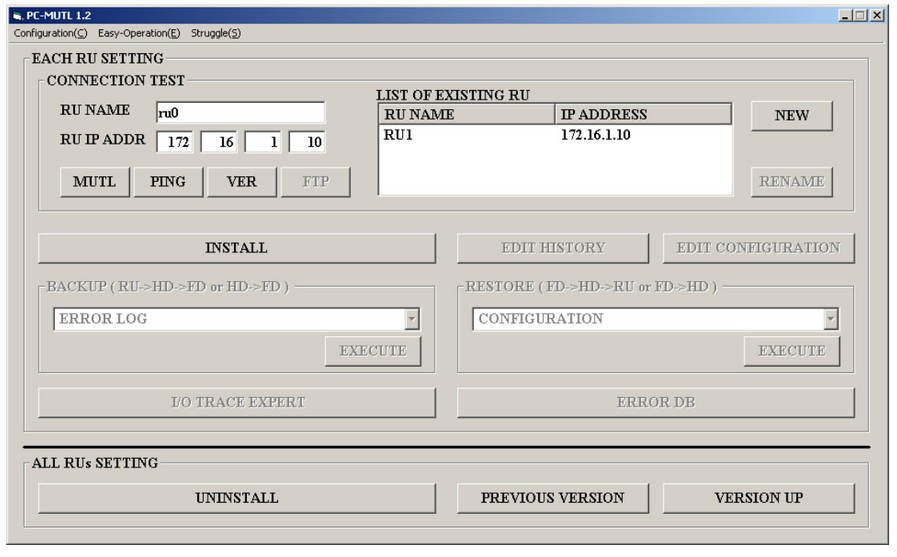
1. **Perform the following steps to start RU M-Utility.**



00000219.EPS

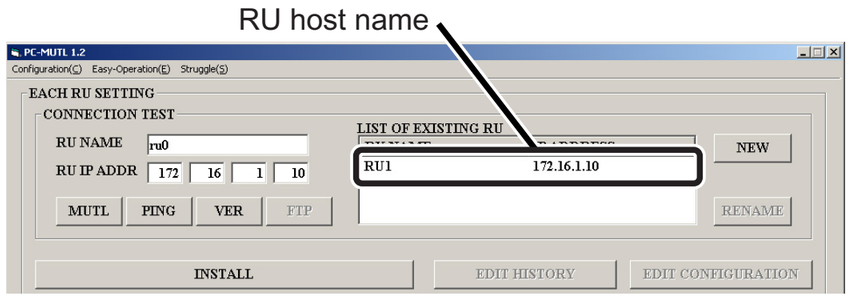
➔ The RU M-Utility main menu opens.

● Main menu window



00000612.EPS

2. **In the “LIST OF EXISTING RU“ area, click the host name of the RU whose configuration file is to be set up.**



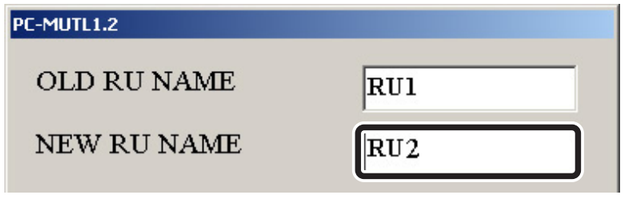
00000613.EPS

➔ The “EDIT CONFIGURATION“ button text color changes from gray to black.

3. **Click** RENAME **.**

➔ A window opens to prompt for a host name change.

4. **Enter a new host name in the "NEW RU NAME" field.**



00000614.EPS

5. **Click** SET **.**

➔ The RU host name is then changed.

◆◆ *CAUTION* ◆◆

The RU panel will be illuminated while the RU host name is being changed. Never turn OFF the power to the RU or press the reset switch during such a change process because the RU's CPU board can be damaged.

6. **Click ✕ in the upper right corner of the window.**

➔ You are then returned to the desktop screen.

■ Changing the CL Service Utility settings

1. **Start the Service Utility and then click [Setup Configuration Item].**

➔ The "Setup Configuration Item" window opens.

2. **Within the tree in the left-hand area of the window, click the ⊞ mark to the left of ⊟ NETWORK CONFIG, and then click the ⊞ mark to the left of ⊞ ALL OTHER NODES.**

3. **Choose ⊞ ru0 (the RU's previously selected host name).**

4. **Change the** HostName : ru0 **entry in the upper right corner of the window to a new RU host name (RU1).**

5. **Click** Apply **.**

6. **From the tree in the left-hand area of the window, choose ⊟ CONNECTING EQUIPMENT, and then set the RU under "READER" Function in the right-hand area of the window to "RU1 (new host name)".**

7. **Click** Apply **.**

8. **From the "Config (F)" menu, choose "Save".**

➔ A window opens, prompting you to confirm the setup data to be saved.

9. **Click** Yes **.**

➔ The system saves the setup data.

The original network setup is then restored.

Appendix 9 Changing the CL IP Address

To connect a multiple number of CLs within the same network, the CL IP address must be changed from the default setup value (172.16.1.20) to another.

In addition, the sub-net mask must also be changed from the default setup value (255.255.0.0) to another, for which the procedures described below should be followed.

◆ NOTE ◆

Windows 2000 screens are used herein, whose contents are the same as those displayed by Windows XP.

1. Make settings as follows.

● **For Windows 2000**

- **Double-click**

on the desktop.

➔ The “My Computer” window opens.

- **Double-click**

.

➔ The “Control Panel” window opens.

● **For Windows XP**

- **Select**

from the

menu.

➔ The “Control Panel” window opens.

2. Double-click

.

➔ The “Network and Dial-up connection” window opens.

3. Double-click

.

➔ The “Local Area Connection” window opens.

➥ *REFERENCE*

On Windows 2000/XP, the “Local Area Connection” icon may not appear on the display if your PC is not connected to other equipment (RU) with a network cable.

4. Click

.

➔ The ”Local Area Connection Properties“ window opens.

5. Select

and then click

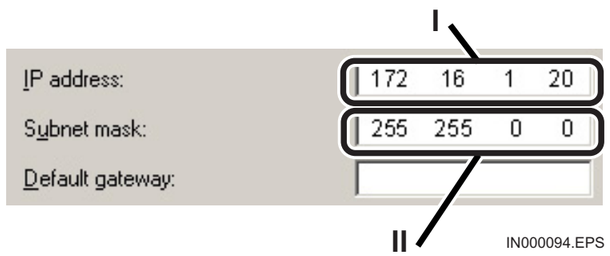
.

➔ The ”Internet Protocol (TCP/IP) Properties“ window opens.

6. Select

.

7. Change the IP address and sub-net mask.



I. IP address
II. Sub-net mask

8. **Click** OK **.**

➔ You are returned to the ”Local Area Connection Properties“ window.

9. **Click** OK **.**

➔ You are returned to the desktop screen.

➥ ***REFERENCE***

When a window appears prompting you to restart the system, click [Yes]. Once the OS has started, the CL-AP will start up automatically.

10. **Re-set the IDT CONNECTING configuration.**

☞ **See “3.13 Patient Information Sharing Function Setup” under “MU: Maintenance Utility”.**

This completes to change the CL IP address and sub-net mask.